

The Mining Journal

RAILWAY AND COMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 839.---Vol. XXI.]

LONDON, SATURDAY, SEPTEMBER 20, 1851.

[PRICE 6D.]

Stannaries of Cornwall--In the Vice-Chancellor's Court.

TILLY v. MACINTOSH--SAME v. TRUSCOTT--SAME v. DICKINSON--
SAME v. SMALL--SAME v. TREVILLION.

IN RE WEST UNITED HILLS MINE.

NOTICE IS HEREBY GIVEN, that, pursuant to the several Orders or Decrees made in the several above-named causes, and bearing date respectively the 19th day of August last, a PUBLIC AUCTION will be HOLDEN at Pearce's Royal Hotel, TRURO, on Thursday, the 25th day of September last, at Four o'clock in the afternoon, for SELLING, in such lots as shall be then and there determined on, FIFTY (110ths) PARTS, or SHARES, of the defendant, George Macintosh; TWENTY-FIVE (110ths) PARTS, or SHARES, of the defendant, Nicholas Truscott; FIFTY (110ths) PARTS, or SHARES, of the defendant, William Dickinson; FIFTY (110ths) PARTS, or SHARES, of the defendant, William Small; and TEN (110ths) PARTS, or SHARES, of the defendant, John Trevillion, of and in the SAID MINE; and the LIKE PARTS, or SHARES, of the said defendants respectively of and in the ORES, HALVANS, MACHINERY, and MATERIALS, and OTHER EFFECTS upon and belonging to the SAID MINE.

For further information application may be made to Messrs. Hodge and Hockin, solicitors, Truro.---Dated Registrar's Office, Truro, Sept. 10, 1851.

PURSUANT to a DECREE of the HIGH COURT of CHANCERY, made in a cause of BIRCH v. PRICE, with the approbation of Sir William Horne, one of the Masters of the said court, peremptorily, by Mr. JOHNSON, on Friday, the 24th day of October next, at Three o'clock in the afternoon, at the Wynnstay Arms Hotel, in WREXHAM, in the county of DENBIGH, in one lot, the FREEHOLD ESTATE, consisting of PLANTAGENET FARM, COLLIERIES, and MINERALS of COAL and IRONSTONE, situate in the said parish of Wrexham.

Particulars may be had gratis, in London, at the said Master's Chambers, Southampton-buildings, Chancery-lane; Mr. N. C. Milne, solicitor, Harcourt-buildings, Temple; of Messrs. Hughes, Fairbrother, and Webb, solicitors, Clement's Inn; and in the country, of Mr. Jones, solicitor, Brynhyfryd, Ruthin; and Mr. Robert Humphreys Jones, solicitor, Wrexham; at the place of sale; and the principal Inns in Ruabon, Liverpool, Manchester, Chester, Shrewsbury, Wolverhampton, and Birmingham.

Valuable FREEHOLD ESTATES, FARMS, and COLLIERIES, in the parishes of RUABON and ERBISTOCK, DENBIGHSHIRE, and CONTIGUOUS FARMS, in the parishes of ELLESMERE and ST. MARTIN, SHROPSHIRE.

MR. JOHNSON will SELL, BY AUCTION, at the Wynnstay Arms Hotel, WREXHAM, on Thursday, the 23d day of October, 1851 (unless previously disposed of by private contract, of which due notice will be given), precisely at Three o'clock in the afternoon, all that valuable ESTATE, called

PENYLAN.

situate in the parishes of RUABON and ERBISTOCK, in the county of DENBIGH, and ELLESMERE and ST. MARTIN, in the county of SALOP, containing upwards of 1600 acres of land, divided into compact farms, and let to respectable tenants, at rentals realising nearly £2000 per annum.

Also, the TITHE RENT CHARGES, payable out of the several townships of Crickwyth, Kourick, Dinlithie-issa and Dinlithie-ucha, in the said parish of Ruabon, which produce an annual rental of £307.

PART of the ESTATE, comprising the MANSION, delightfully situated, on the banks of the River Dee, celebrated for its salmon and trout fishing, within three miles of Ruabon Railway Station, and commanding the most beautiful view, and is suitable for the residence of a family of the first respectability, with the park, extensive woods and covers, abounding with game, together with several farms adjoining, and containing, in a ring fence, about 1100 acres, will be OFFERED FOR SALE in ONE LOT. The remainder of the FARMS, COLLIERIES, and TITHEs, will be OFFERED FOR SALE in SEVERAL LOTS.

The Estate is in the midst of a sporting country, and is immediately adjoining the lands and park of Sir W. W. Wynne, Bart., whose kennels are contiguous, and presents an opportunity for the investment of capital rarely to be met with.

Maps and particulars may be had of Daniel Smith Bockett, Esq., solicitor, 60, Lincoln's Inn-fields, London; of Messrs. Duncan, Squary, and Duncan, solicitors, Exchange-buildings, Liverpool; of Wm. Wood, Esq., solicitor, 18, Cooper-street, Manchester; at the principal hotels in Manchester, Liverpool, Chester, Ruabon, Shrewsbury, and Birmingham; of the auctioneer, in Wrexham; and of Mr. H. Jones, solicitor, Wrexham.

GLAMORGANSHIRE--SALE of Valuable FREEHOLD ESTATES and MINERALS

MR. THOMAS THOMAS will SELL, BY AUCTION, at the Castle Hotel, NEATH, on Wednesday, the 29th of October, 1851, between the hours of Twelve at noon and Two o'clock in the afternoon, unless previously disposed of by private contract (of which due notice will be given), in such lots and subject to such conditions of sale as will then be produced, the following valuable and improvable FREEHOLD ESTATES--VIZ.:

THE FARMS of MAESMELIN and PANT-Y-SHAEL, with the COTTAGES thereon and WOODLAND adjoining, containing altogether about 138a. 3a. 33r.

PENTWY, containing about 47a. 10c. 29r.

A MOIETY of the FARMS of NOYADD WEN and TYR EINON, with the COTTAGES thereon and WOODLAND adjoining, containing altogether about 137a. 2a. 24r., all of which are in the parish of Cadroxton-Juxta-Neath; and all MINES and MINERALS under a part, containing upwards of 200 acres, of the GLANBRANE ESTATE, situate in the parish of Llanmallet.

Particulars and plans are in preparation, and will shortly be ready for delivery.

Further particulars may be obtained of Messrs. Llewellyn and Randall, solicitors, Neath; or of the auctioneer, West of England Insurance Office, Neath, who will, on being applied to, give every facility for viewing the property.

NORTH STAFFORDSHIRE.

THE CHEADLE and OAKAMOR COPPER and BRASS SMELTING, REFINING, WIRE-DRAWING, and TUBING MILLS, communicating by a siding with the North Staffordshire Railway, driven by steam and water-power, replete with machinery, and in full operation, WILL BE OFFERED FOR SALE, BY AUCTION, at the Royal Oak Inn, in CHEADLE, in the county of Stafford, on Friday, the 26th Sept., 1851, at Three o'clock P.M., unless previously disposed of by private contract.---Particulars may be had on application to Rupert Ingley, Esq., Cheshire; or Messrs. Ward and Son, solicitors, Newcastle, Staffordshire.

TO MINE PROPRIETORS.--TO BE SOLD, at MINE-FIELD, ARGYLLSHIRE, a CRUSHING-MILL and WASHING APPARATUS, &c. THE CRUSHING-MILL is of considerable power, having a cast-iron overhead water-wheel, of 36-feet diameter, driving crushing and chaf cylinders, and four large break sieves, &c. There are several pairs of new cylinders ready to replace those in use; also a complete set of WASHING APPARATUS, with ore waggon, wagon-when-anxious, and a set of blacksmiths' tools, bellows, anvil, &c.

The models of the machinery may be had with it, as they are all at the mine, in good preservation.

Parties wishing to carry on the mine may, with the machinery, have the remainder of the lease of silver-lead ore, yielding from 15 to 20 ounces per ton.

The mine is very favourably situated, lying at the head of Glen Cragan, near Oban, and the ore or machinery may be put on board ship at 1s. per ton for land carriage.

Applications for purchase may be made to James Burgess, mining engineer, No. 49 Cumberland-row, Newcastle-on-Tyne.

WALL'S-END COLLIERY.--TO BE LET, and entered upon on or after the 28th day of September next, for such term of years as may be agreed upon, all that CURRENT-GOING COLLIERY, well-known by the name of WALL'S-END COLLIERY, at present held by Messrs. Arnold and partners, under lease from the Dean and Chapter of Durham, comprising the COAL MINES under the whole of the lands belonging to the said Dean and Chapter, in the township of WALL'S-END, in the county of NORTHUMBERLAND.

The Low Main Seam, which has been sunk to a depth of 22 fathoms below the Penham Seam, and the Beaumont Seam, which has been bored to a further depth of 23 fathoms, remain untouched throughout the Royalty. The Low Main Seam, in the royalty next adjoining, is of good quality, and is worked for gas purposes.

The Beaumont Seam supplies the vent of the existing colliery. The colliery is contiguous to, and has shipping berths on, the River Tyne.

Plans of the workings of the colliery, and further particulars, may be known on application to Mr. E. F. Boyd, Urpeth Colliery, near Chester-le-Street; or at the offices of the Registrar of the Dean and Chapter of Durham, 28, South Bailey, Durham.

Durham, July 2, 1851.

VALUABLE MINERAL ESTATE IN WALES.--TO BE LET, ON LEASE, for a term of 50 years, a very valuable PROPERTY in MERRIONETHSHIRE. The Estate is extensive: it contains TWO large VEINS of SLATE, of superior quality--the one is a continuation of the Abergavenny Vein, which has produced £40,000 per annum profit, and has been worked very extensively; the other is a vein which has been opened up, and is at present in a state of work. The slate and slates of this quarry are of the very best description, and of that fine blue colour so much in demand. There is also a very large copper lode passing through the Estate upon which the proprietors have some men now at work. In addition to these, there is also a course of lead passing through the southern part of the property.

The whole comprises upwards of 350 acres, with the advantage of a fine stream of water passing through the same, and is only four miles distant from an eligible shipping port.---This valuable property, with the advantages therewith connected for forming an extensive and profitable investment, cannot be equalled in the Principality.

Every required information may be obtained from the proprietor by application at the office of Mr. Robert Linnhorne, 1, Angel-court, Throgmorton-street.

MR. JAMES CROFTS, of 4, KING-STREET, CHEAPSIDE.

MINING BROKER, OFFERS his best SERVICES to CAPITALISTS for the PURCHASE or SALE of MINING SHARES, and transacts business only for principals.

Mr. Crofts has FOR SALE SHARES in the following MINES:--Wheal Zion, Okef Tor, West Polgoth, Appledore, South Tamar, Bedford United, East Tamar, Elgonston Down, East Gunnedale, Bodmin Consols, Warleggan, Silver Valley, Spearhead Consols, Wheal Lavel, North Foway Consols, East Russell, Devon and Courtney, West Providence, Calstock Consols, and can PROCURE or SELL SHARES in all DIVIDEND MINES, and in particular a permanent one, paying £5 per share upon a cost of £35 per share, or nearly 25 per cent. per annum interest.

The increased business in mining shares is producing more regularity in prices, and rendering transactions of a more easy and satisfactory character. Mr. Crofts will (confidentially) give an opinion of the value of any mine within his knowledge, either personally or by letter.---Dated Sept. 19, 1851.

GENERAL MINING OFFICES.

23, Threadneedle-street, London.

MR. JOSEPH JAMES REYNOLDS, late of CAMBORNE, CORNWALL, begs to inform his friends and the public that he has COMMENCED BUSINESS as a MINING and GENERAL AGENT at the above office, and trusts, by paying a due regard to the welfare of his clients, that he will at all times merit their confidence. Having been connected with the management of mines in the most productive districts of Cornwall upwards of twenty years, and being in communication with some of the most respectable agents in the mining districts, Mr. Reynolds will be enabled at all times to furnish such information as may be relied on.

Mr. Reynolds has SHARES in the following MINES FOR SALE:--

Carvanall	Sydney Godolphin	East Ballowiddon
West Basset	Rocks and Treverbyn	East Buller
West Stray Park	East Pool	West Wheal Virgin
Pendarves & St. Aubyn	Cook's Kitchen	Wheal Gennys
South Condorford	East Wheal Frances	Wheal Lavel
Wheal Unity	Great Wheal Sheba	North Foway Consols
Wheal Gill	Great Wheal Badden	Wheal Susan

And is a BUYER in the following MINES:--

Conduvor	Trumayne	East Alfred Consols
West Providence	West Wheal Seton	Mary Ann
Alfred Consols	Trelawny	Devon Great Consols

J. J. REYNOLDS will carry on business upon COMMISSION ONLY, making no intermediate price between buyers and sellers, and will be ready at all times to introduce the buyer and seller of any shares to each other.---Office hours Ten to Four.

MESSRS. FRANCIS & CO. in order to avoid the complicated and indefinite system of CALLS for working or proving mines, consider that a better and more satisfactory one will be found in offering the public those chiefly in which the machinery and underground work required to bring them into a state of profit has been completed and paid for.

In mines thus far advanced, it will be obvious that as there will be no risk, so there can be no necessity for calls--the speculative part of the adventure having been come through; and in this way capitalists will be enabled to invest with the certainty of immediate returns.

Mr. MATTHEW FRANCIS takes leave to announce, that he has several THOUSANDS of POUNDS WORTH of SHARES to DISPOSE OF, which, at the selling price, give a profit of from £20 to £40 per cent.

* Offices, No. 7, John-street, Adelphi, London.

MINING SHARES.--MR. HENRY VATCHER, EXETER, OFFERS his ADVICE and ASSISTANCE to PARTIES willing to INVEST in the ABOVE SECURITIES. Ten years' residence in Exeter, together with periodical visits to nearly all the Mines in Devon and Cornwall, enables him to become thoroughly acquainted with their respective merits. Mr. VATCHER has at his command, at all times, practical and experienced agents, so that if any inspection is required, the same can be done without delay.

MINING AND RAILWAY OFFICES, No. 3, CASTLE-TERRACE, EXETER.--MR. JOHN JURY, RAILWAY and MINING SHARE-BROKER, OFFERS his SERVICES to CAPITALISTS in the PURCHASE or SALE of ANY DESCRIPTION of PROPERTY; and will be happy to point out a selection of such stock as appears the most eligible, from data that can only be arrived at by those who give an undivided attention to the subject.---Every information afforded (either in person or by letter) to capitalists wishing to invest or exchange their securities, and sales or purchases effected upon the best terms, and at one-half the commission usually charged.

MESSRS. TREVARTON and CO., MINING SHARE DEALERS and BROKERS, 5, ST. JAMES'S-STREET, PALL-MALL, LONDON.

MINING INVESTMENT.--T. FULLER and CO., No. 51, THREADNEEDLE-STREET, LONDON, beg respectfully to inform the public that they are in a position to BUY and SELL in all the DIVIDEND-PAYING MINES, which upon present purchase will pay from 15 to 25 per cent, and have on hand Bedford United, Devon Great Consols, Mary Ann, Trelawny, West Caradon, Great Head Friendship and Venton, Boringdon Park, Wheal Catherine, Franco, Zion. Also shares in Wheal Williams--this is a continuation of the Devon Great Consols, and embracing several of the same lodes; also Devon Consols North--this adjoins the latter, which, with £1 paid, are marketable at £250, and paying £48 per annum in dividends.---Every information given, either personally or by letter.---Office hours from Ten to Four.

MINING INVESTMENTS.--MR. CREFT, No. 1, ROYAL EXCHANGE BUILDINGS, LONDON, is always open to BUY or SELL (on commission) in DIVIDEND-PAYING MINES, or in the most ELIGIBLE of the YOUNG MINES, and will be happy to furnish all particulars by letter or otherwise.

MR. CREFT has FOR SALE SHARES in MINES surrounded by Carr Brea, Wheal Buller, and other valuable mines, and under the best management in Cornwall.

N.B.--Carr Brea, £15 paid, are now worth £105; Wheal Buller, £5 paid, are selling at £250 per share.

MOLYNEUX & CO., MINE AGENTS, No. 34, THREADNEEDLE-STREET, have SHARES on SALE in DIVIDEND-PAYING and OTHER MINES, which will ensure to CAPITALISTS the safest and most unexceptionable investment.

* Offices of the Wheal Langford and Baring United Mining Company, and Trelawny Consols Mining Company, No. 34, Threadneedle-street.

REMOVED--104, Bishopsgate-street-within.

MR. PEET, MINING AGENT and GENERAL SHARE BROKER, has REMOVED to the ABOVE CONVENIENT OFFICES. The same attention paid as hitherto to all MINING BUSINESS of legitimate character; and in thanking his friends for former commissions, he solicits a continuance of their kind support.

OFFICES of Wheal Mary, Pentire Glaze and Pentire United Mines, Devon Consols West, and Wheal Hamlyn.---The strictest confidence observed in all transactions, and all registry of shares will be free, unless a sale or purchase takes place.

MINING, AUCTION, and GENERAL AGENCY OFFICE, No. 3, GEORGE-YARD, LOMBARD-STREET, LONDON.

Messrs. TREDINNICK & CO. beg to inform their Friends and the Public that they continue to TRANSACT EVERY DESCRIPTION of MINING AGENCY BUSINESS, and have ON SALE SHARES in most of the DIVIDEND MINES in CORNWALL, DEVON, and WALES, as well as those on the eve of paying, and situate in the best mining districts.---Loans and Money Matters in general negotiated; Mines Inspected, and Reports obtained from practical agents, and every information affecting the market value of mining property afforded gratuitously.

MINING OFFICES.--ST. MICHAEL'S CHAMBERS,

ST. MICHAEL'S ALLEY, CORNHILL.--MR. R. TRIPP has for bond sale

SALE shares in most of the BEST DIVIDEND MINES, including the following:--

South Caradon	Holmbush	Wheal Trelawny
West Caradon	Spearhead Consols	Wheal Mary Ann
Alfred Consols	Trelawny and Barrier	Stray Park
Devon Great Consols	Wheal Trumayne	Trelawny
Wheal Trumayne	South Tolsa	Tamar Consols
Lewis	Wheal Margaret	&c. &c.

And in others having present and prospective advantages, including:

Great Wh. Badden	South Tamar	Kingett and Bedford
East Wheal Beeth	Wheal Carpenter	Wheal Unity
Bodmin Wheal Mary	Trevilly	Hingston Down
Bodmin Consols	Hencock (lead)	Wheal Russell
Wheal Arthur	West Ding-Dong	East Russell West ditto
Warleggan	Wheal Treasury	Wheal Crebor
East Tamar	Caradon Vale	Pensance Consols

FOAMOR--Copiaio, St. John del Rey, Cobre, Linares, Worthing, &c.

REGISTRY FOR THE SALE AND PURCHASE OF MINING SHARES.

DURANT & CO., MINING SHAREBROKERS, 58, LOMBARD-STREET, LONDON.

Beg to draw the attention of Capitalists to their REGISTRY for the SALE and PURCHASE of SHARES.

Shares for Disposal.

Devon Great Consols	Wheal Mary Ann	South Caradon
Carr Brea	Wellington	Great Wheal Sheba
West Caradon	West Buller	Trelawny
Trelawny	Tolga	Bedford United

N.B.--Statistical information furnished on British and Foreign Mines.---No CHARGE made for the registration of shares unless business be transacted.

MINING EXCHANGE.--The MEMBERS TRANSACT BUSINESS in the HALL of COMMERCE, THREADNEEDLE-STREET, DAILY--commencing at Twelve o'clock.

MINING PROPERTY.--MR. HERRON has SHARES in the best DIVIDEND-PAYING MINES FOR SALE, and which will give the purchaser 15 to 20 per cent. for the outlay. Amongst others are the following:--

North Basset	West Providence	Tincroft
West Buller	West Caradon	Cobre
South Frances	South Caradon	St. John del Rey
Trelawny	Wheal Trelawny	Copiaio
Alfred Consols	Mary Ann	Wheal Trumayne
East Wheal Brea	Devon Great Consols	Bedford United

And has also FOR SALE SHARES in MINES having a PROMISING APPEARANCE, and affording greater range for speculation, such as--

Crane and Dejavas	Trefusis	Trelawny
West Basset	Wellington	Kilbricken
Wheal Grenville	West Alfred Consols	Merrlyn
West Frances	South Tamar	Graham & St. Aubyn

---Mining Offices, 33, Clements-lane, Lombard-street.

MR. JOHN DAVIES, MINING SHAREBROKER, No. 38, TOWER-BUILDINGS, TOWER-GARDEN, LIVERPOOL.

MR. GEO. CARNE, DEALER IN STOCKS AND SHARES, 23, THREADNEEDLE-STREET, LONDON.

MOLYNEUX and CO., 34, THREADNEEDLE-STREET, have ON SALE SHARES in first-rate DIVIDEND-PAYING MINES. They particularly call attention to some Welsh Mines, paying £20 to £30 per cent, with prospects of increase. Also other mines, holding out a certainty of large returns within a short period.---Samples of the ore to be seen at the offices.---Sept. 13, 1851.

MR. RICHARD GREENWOOD begs leave most respectfully to acquaint his Friends and the Public generally that he has COMMENCED BUSINESS of an AUCTIONEER, APPRAISER, MINE SHAREBROKER, and general COMMISSION AGENT.---MR. R. GREENWOOD having for many years been engaged in the Mining and Commercial business of this country, and being fully aware of the desirableness of strict confidence in those who arrange such transactions, does not hesitate to pledge himself to the conducting of whatever business may be committed to his care, with the strictest attention to the interests of his clients.

Parties entrusting property to Mr. Greenwood can be accommodated with an advance of money in anticipation of a sale.

OFFICES--PYDAR-STREET, TRURO.

Dated August 15, 1851.

MINING OFFICES, REDRUTH.--JOHN ROBERT PIKE, GENERAL SHAREBROKER (on Commission only), being resident in the centre of the Mining district, POSSESSES great FACILITIES in the DISPOSAL OF or PURCHASING SHARES, INSPECTING MINES, &c., on the most moderate and honourable terms.

MR. THOMAS JORDAN, METAL BROKER, No. 78, OLD BROAD-STREET, CITY, exclusive AGENT for one of the BEST MAKERS of HAMMERED IRON for MARINE, LOCOMOTIVE, and other ENGINES. Also AGENT for the SALE of SOUTH STAFFORDSHIRE and WELSH BAR, BOILER PLATE IRON, in all its varieties.

The Proprietors of Lead and Copper Mines in Devon, Cornwall, Wales, &c., will find great advantage in the quality and cheapness of the Iron they require, by seeking quotations through the Advertiser.

MR. ALFRED SENIOR MERRY, DEALER IN COBALT AND NICKEL ORES, and ASSAYER in GENERAL.---Address: LEE-CRESCENT, BIRMINGHAM.

MR. JOHN PHILLIPS, MINERAL SURVEYOR and MINE MANAGER, MARGARET-STREET, NORTH ADELAIDE, in the province of SOUTH AUSTRIA, after three years' residence and two years' exploration in the colony, RESERVES his EXPERIENCE for BRITISH CAPITAL: awaiting the result of this advertisement in a suitable remuneration for past time and future services.

WANTED.--An English Gentleman, educated as an Engineer at the National Mining School at Paris, where he has taken his degree--an experienced draughtsman--perfectly master of the French language--desires an APPOINTMENT in one of the FRENCH or ENGLISH RAILROADS, in the locomotive department, or an EMPLOYMENT as SUPERINTENDENT of LEAD MINES or WORKS.

The Advertiser has particularly directed his attention, in Germany and in England, to the Smelting of Silver-Lead Ores, and has acquired a practical knowledge of locomotives at the works of the Paris and Orleans Railroad.---Direct Mr. Barton, Mining Journal office, 25, Fleet-street, London, or Rue Vintimille, 6, Paris, France.

TIN PLATES.--An Established METAL AGENT in GLASGOW, having an excellent connection, is at present OPEN to undertake a COMMISSION from a MANUFACTURER for the SALE of TIN PLATES. The Advertiser can refer to the leading firms in England, Wales, and Scotland.

Address "Tin-plates," at the office of the Mining Journal, 25, Fleet-street, London.

TO BE SOLD, BY PRIVATE CONTRACT, the whole of the FIRE-CLAY WORKS, situated at OLD CASSOP, near DURHAM, comprising STEAM-ENGINE of 14-horse power, STONES, FUG-MILL, all complete; PRESSING MACHINE for large pipes, and DRAIN-TILE MACHINE; 4 kilns, and a large drying flat, 40 feet by 22 feet; branch railway and drift rails; all the moulds for chimney tops, &c., necessary for carrying out an extensive business, together with one foreman's house.---These works are held under the Bishop of Durham by lease for years, from May, 1847, and are connected by railway with Hartlepool, Sunderland, and Durham.---Terms, half cash, and the remainder in approved bills.

Application to be made to the Old Cassop Fire-Clay Company, Ferry-hill.

ANTHRACITE COAL.--A fine FIELD of this valuable FUEL to be LET, in the parish of BETWIS, by the side of the Llanelli Railway, 12 miles from the shipping port. The anthracite of this district has proved equal in quality to the Pembrokeshire, so highly prized for drying malt. This coal burns without smoke, on which account it has been used at the Great Exhibition in Hyde Park for working the machinery. When this coal is used with a blast, and vapour of water passed through, it produces a splendid fire; generating steam with extraordinary rapidity and the greatest possible economy of fuel.

This mode of combustion is termed by the inventor, Mr. T. H. Leighton, the "hydrocarbon fire," and possesses such manifest advantages, that it must, at no distant period, be adopted on board the Government and mail-packet steamers, on which event the value of this description of property will be greatly enhanced.---For particulars apply to Thomas Jones, Esq., the proprietor, Gelly, Cwm-Aman, near Llanillo,---August, 1851.

COPIAPO MINING COMPANY.--Notice is hereby given, that a DIVIDEND of FIVE SHILLINGS per share will be PAID on the shares of this Company, at the office, 22, Austinfriars, on Friday, the 10th October next, and following days. The dividend warrants are required to be left at the office two days for examination.---Please call between the hours of Twelve and Two.

By order of the Directors, ROBERT CLARK.

22, Austinfriars, August 1, 1851.

TAMAR SILVER-LEAD MINES--FORFEITURE OF SHARES.--Notice is hereby given, that the following SHARES are ABSOLUTELY FORFEITED, in accordance with the resolution, dated 24th July last, previously advertised. The CALL of £1 per share, due 4th November, 1850, being UNPAID on the said shares, and the Numbers of which are as follows:--275, 376, 658, 787, 788, 797, 798, 799, 800, 801, 802, 803, 1112, 1114, 1115, 1117, 1120, 1121, 1128, 1129, 1130, 1131, 1151, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 133

could neither be crystallised from a solution nor from a melted mass; but must evidently owe their existence to a process of sublimation. Why could not the

would neither be crystallised from a solution nor from a melted mass; but must evidently owe their existence to a process of sublimation. Why could not the same thing have taken place in the coal formation? The question of Mr. Musket, however, arises from the erroneous statement in my former letter, that metallic sulphurets especially had crystallised from a melted mass. I had intended to state that instance for the process of sublimation, and probably made the mistake by being obliged to write more than Mr. Musket could read, a hurry.

I am, Sir, very truly, Mr. Musket's obedient servant, and given him plenty of facts, but let him say what he can or may against them, and for his own theory in the *Mining Journal*; but I must request him to be less personal in his answer, or he can no longer expect to hear me justify my assertions in public.

THE DEVON COPPER ORE SMELTING COMPANY.

SIR,—It is with great pleasure I observe by the article in your Journal of the 13th inst., that "the Devon Copper Ore Smelting Company" is likely soon to be established. I have been an eye-witness to Todd's method of separating mixed ores; the following was the result of a trial, which may be interesting to many of your readers:—8 tons 13 cwt. of refuse ores (which had been exposed at surface many years) at Swanpool Mine, near Falmouth, were removed to Bissoe; they were submitted to Mr. Todd's patent process, when the volatilisable lead and zinc were driven off into chambers, and the non-volatile metals tapped out of the bottom of the furnace in a state of regulus. These chambers were opened in my presence about 48 hours after cooling the furnace, when 1 ton 7 cwt. of sulphuret of lead and oxide of zinc were taken from them. I did not see the regulus weighed, but from appearances it was very heavy. I have tried the oxide of zinc, and sulphuret of lead mixed with linseed oil, and a small quantity of Grant's black, on some heavy iron-work, and find it to stand as an anti-corrosive. From Mr. Todd's unwearied exertions in bringing his valuable discovery out, I wish him every success.

Falmouth, Dec. 14. C. A. G.

BRONFLOYD MINE.

Sir,—In your last Journal is inserted a letter from "An (so self-called) Original and bona fide Shareholder," cautioning parties against purchasing shares in this mine, and intimating that by so doing they will incur a risk. In answer, I have only to observe that persons who purchase shares will incur no greater risk than in any similar adventure; and that there is nothing in the position of the company which will not bear the strictest investigation, as will be seen, should the writer of the letter, as he states he *may* do, again appear in print. With respect to the present price of the shares, I can state, as a fact within my own knowledge, that many have lately changed hands at prices varying from 12 to 14; and that I myself, although a large holder from the commencement, have never parted with one; but, on the contrary, have increased my interest in the purchase of 50, at 30s. per share.—**THE FURNACE OF BRONFLOYD MINE.** *Aberystwyth, Sept. 10.*

[ADVERTISEMENT.]
BRONFLOYD MINE.

"So, then, you think, because I am not legally bound, I am under no necessity of keeping my word—

Sir John! Laws were never made for men of honour; they want no bond but the rectitude of their own sentiments, and *laws* are of no use but to bind the *villains* of society."—*Old Play*.

*Sir, I am sure that I am not much surprised at a letter that appeared in your journal of last week about this mine, but in order to put the matter in a fair and clear light before your readers, I shall give a short history of it. I believe it is something less than 12 months ago since my brother and myself, and a few friends, undertook to open these mines. The centre mine we had taken of Mr. Williams, the clergyman of Llanfair Clydno, and we found it desirable to purchase the ground to the eastward and westward of the mine, which was then in possession of lessees or tenants of Mr. Loveden. I recollect my brother and myself paid 30*l.* for the western ground, as well as some money for the eastern ground, but the eastern ground was not yet collied; but, that we were not to be disappointed, we gave grants into possession of the company for the same, and took shares for it at exactly the same ratio as others. Our main object was to drive the adit level eastward and westward upon the vein, for which about 20*l.* a month was necessary. Our company was formed upon the most friendly basis, with a full knowledge of the necessary outlay, and we agreed that our purser in Cardiganshire should give notice to our Cornish adventurers when the money would be necessary, so as to provide the funds for payment. This has been strictly done on his part, and honourably received on theirs. I have never seen any of our shareholders, except on a dissentient voice, either as to the management or any other circumstance connected with the mine. I would add that in the rules of the company, amongst others, it was stipulated that unless against a certain time the calls were paid into the North and South Wales Bank of Aberystwith the shares were to be forfeited. It is unnecessary to say that the object of this clause was, that if any shareholder would not, or would not, pay up his call, it would be competent upon the company to forfeit his shares, a proceeding greatly at variance to the taking of an advantage of a good shareholder for the purpose of robbing him of his shares. It so happened that a gentleman who was one of the shareholders, and a gentleman who was a regular military one, called upon me and requested to have a few shares. I said that all the shares were allotted, but still I continued to receive importuning notes and pressing personal applications for shares; and, when I went to Aberystwith to make enquiries as to the character of our would-be co-adventurer, I was told that if we wanted a partner for a hand at whist, we should find in our would-be adjutor a most expert hand, but that it was not considered probable, for many reasons, that he would make a very great miner. I, therefore, felt no inclination to take a call upon him, and he left me with a great deal of money in his pocket. The captain had plied himself by constant begging, and made him present in five shares upon his paying the calls of 2*s.* 6*d.* each upon them. Mark the sequel. At our first meeting at Goginan, our military friend, accompanied by his man of law, came to the account, prepared to forfeit almost everybody's shares; not that he pretended their money was not paid to the purser, and through him to the miners and merchants, but he considered he had discovered a flaw in the indictment, and because the money, such as my brother's and my own, which had been paid for the pound before the company was formed, was not entered in the bank account, he was entitled to forfeit the shares of the other shareholders. The shareholders present, who had paid everything that the purser had demanded of them, and who were otherwise satisfied as to the management. I cannot say what portion of the shares would have fallen to the lot of the man of law, if he had succeeded in making us allow this learned doctrine, but I should say he would have deserved the half of them at the very least. Now I would give a case in point: when Goginan was entered there was a capital of 500*l.* subscribed in calls; as that was insufficient, Mr. Loveden, seeing that the mine was likely to be a good one, advanced another 500*l.*, making 1000*l.*—more than the bank could take in. Brodgar, the military gentleman, called to forfeit the other shares. I shall not insult your readers by alluding to the absurdity of such a position: everybody knows that a man is fairly entitled to what he has paid for, and it would be absurd that my brother and myself, who paid the very money that was paid for the mine, should lose our shares because we were not paid into a bank at a time when there was no banking account established.*

have no doubt that I have hit upon the right party, and I suppose we shall see your next Number what the charges really are, and by whom they are made. It is really a pity that a prosperous concern, and a contented company, should have their peace destroyed by such an ignoramus, who is in every sense of the word an interloper amongst respectable people; and I suppose, although he has already quadrupled his capital, five shares, at 7s. 6d., 11. 17s. 6d., now selling for 10s., that he is dissatisfied that he cannot make money as fast as by some other process; or that he fancies he will be bought up at a high price, in order to save the annoyance of his connection with the company. I can only say that I shall be so happy to return the money to any person to whom I have sold shares, if they are dissatisfied. The mine goes on as prosperously as possible: although barely six months old, we have opened good ore ground for 2 1/2 fms. in length, which is only to continue to the old mine 100 fathoms to the westward. We have sunk our mine-shaft 10 fms. under the adit level in good ore. We have erected a crushing mill and dressing floors, and sold 3000 l. worth of ore, at 10s. per cwt. In 2000 shares, to the shareholders, and 2000 l. worth of ore, at 10s. per cwt. We have conducted with more rapidity and effect than they have been in this mine. We have been much less reason for grumbling amongst the bond-fide mining community than in any other mine. We have been much less reason for grumbling amongst the bond-fide mining community than in any other mine. We have been much less reason for grumbling amongst the bond-fide mining community than in any other mine.

unity then there now seems to be in different quarters.—M. FRANCIS: Sep. 16.

[ADVERTISEMENT.] 41
TOWNSEND UNITED MINES

TREBURGET UNITED MINES.

Hir.—As you are at command in publishing Mr. G. N. Simmons's reply respecting Treburget Mine adventurers, noticed in your last week's Journal, I think I may claim a right to expect from your impartial hands a similar insertion. I may say, of all prevarications his are the most unblushing. On 11th September, 1850, a public meeting of the Treburget United Mines adventurers was held at Mr. Simmons's office, Trarou, when a call of £1 per 512th share was made, and paid into his hands for working capital. A sum of 6s. share, on a certain number of shares, was also paid to him by shareholders at same time, to pay into my hands, to discharge the liabilities previously contracted for the mine; and also other sums agreed for by a written document, signed him, and in my possession, which sum of 6s. per share he has, and still does, withhold from me, after repeated applications for payment. He has, however, a court of law will do justice in this matter, and place it upon paper before me, so that I can see that the call put forth, and any money advanced to the samples produced at a meeting on the 30th August, which is a tacit admission of the charge brought against him at the last meeting. With respect to Mr. Simmons's assertion, that his books, &c., were open for inspection by me and the other adventurers, I must positively state that on several occasions, on my making an application to see those books, &c., I was peremptorily refused; and none of the adventurers have, to my knowledge, ever seen the books from the first meeting in Sept., 1850, nor have they signed the cost-book, or assented to the account of the mine, as called for the 30th Aug. On the 30th day of last month, such meeting was illegal, to liquidate a debt which I and they entirely disclaim; although it is but too true he has obtained the call from a few by threats of legal process from creditors of the mine, and in strictness there should not have been a creditor in the adventure. On the 7th July last a requisition was signed by five shareholders, to call a meeting of adventurers; but, according to the ex-purser's own resolutions in the cost-book, three would have been sufficient. notwithstanding, "silent contempt" was shown to the requisition. On the 18th August, another meeting of the same kind was called for the 30th Aug., by Messrs. Bennett, Hooper representing, and authorised by proprietors holding shares. So much for Mr. G. N. Simmons's assertion of "the meeting being called by holders of six shares only." I think I can do no better in winding up the matter than by referring to Mr. G. N. Simmons's balance-sheet, delivered at this meeting, showing the sum total of expenditure of £241.2s. 4d. More essential, & by proper management, on the mine, might have been done for 376l. But the striking part of the balance-sheet is as follows:—*To Salts*, s. 72l. 7s. 11d. Why say "*Salts*" for May and June, *72l. 7s. 11d.*?" *Silts*, s. 72l. 7s. 11d. Why say "*Silts*," for the cost of the mine? Is it a punny? From my having kept minutes of the work done, allow me to say there were three men, eight days in May, who left want of their money when due, and one in June, to watch materials, at 4s. per ton; agencies, &c., including purser's and captain's salary, say 13l. 6s. 4d.; and in June, showing a difference against the purser of 63l. 1s. 7d., instead of the 9s. in his favour; and from all I can gather from the merchants and labourers

HOLLOWAY'S OINTMENT AND PILLS THE FIRST REMEDY IN THE WORLD
The CURABLE SCROFULA miner, living at Newport, had been afflicted
his infancy with scrofula or king's evil, which was greatly aggravated by the nature
his employment. All the doctors that he applied to were unsuccessful in their treat-
ment of his case, even those at the Infirmary at Bristol, whether he had gone in the hope
of obtaining relief. In this condition he commenced the use of Holloway's ointment
and pills, and in a few days he found the first medicine that it considered
himself of it to be perfectly successful. Sold by all druggists, and at Professor Hol-
loway's establishment 244, Strand, London.

accounts, the ex-purser is not in advance, but in debt to the company about 214d. I am not in the least surprised at capitalists being shy in embarking in Cornish mines, although a large field of wealth is yet to be developed therein, and would be obtained by just and legitimate mining, and pay a handsome per centage. I am prepared to answer any further remarks Mr. Simmons may sum up courage to expose to the public eye. It is useless for him to fish for a character from me: if that is his object, I beg most decidedly to refer him and the public to the adventures connected with West Gribbler, Carvannal, Wheel Sally, Wheel Dyke, Mineral Court, or Wheel Violet, as all of them have had an equal test of his qualifications as a theoretical and practical miner, and book and balance-sheet account keeping. *Sturro, Sept. 17.*

THE COST-BOOK PRINCIPLE.

Sir,—Having recently perused a brochure on this subject, I was led to a close examination of one of the points on which some doubts have, as I understand, long prevailed—namely, whether the exemption in the Joint-Stock Companies' Registration Act (7 and 8 Vic., cap. 110, sec. 68), with regard to mining partnership on the "Cost-book Principle," extended to companies formed for mining operations beyond the Stannaries' jurisdiction. My previous impression had been that no such partnership out of the Stannaries would be legal without registration under the Act in question, but a nearer consideration of the words of the statute leads me to a contrary conviction. The section is short, and quite explicit, standing in this respect, independent of the other provisions:—"Provided always, and be it enacted, that nothing in this Act contained shall extend, or be construed to extend, to any partnership formed for the working of mines, minerals, and quarries, of what nature soever, on the principle commonly called the Cost-book Principle."

There is no limitation here. Had there been any previous recital that this "principle" was confined to Cornwall, or if the exemption was otherwise restricted by words to show an intent to confine it to the then existing boundary within which it is now assumed that "principle" was exclusively applied to practice at the time of the passing of the statute, it might be fairly argued that the exemption was so controlled. But when it is remembered that there were no data before Parliament, to demonstrate the non-existence of cost-book companies elsewhere than within the jurisdiction of the Stannaries, and that the current of legislation from the outset has been to extend especial favour and encouragement to mining, and instead of tramming its action to remove obstruction, and by every auxiliary available to the Legislature to facilitate its advancement,—then the ordinary rules of interpretation will guide us to infer that the object of the exemption was to sustain all the favourable dispositions by which mining adventures had been promoted. This must be more manifest, on reflecting that it would be an injustice to extra-stannarial mining, to refuse a constitution, which, by implication, was admitted as satisfactory or advantageous to existing adventures on that principle. Such would inevitably be the consequence of insisting that the exemption had a special direction to objects not expressed in the enactment, instead of being universal, as I now contend. For if the sense were limited on the assertion that the working of the system was not satisfactory or capable of extension, and that it was the intention to save only existing rights, which constituted the groundwork and *modus operandi* of the provisions affecting other joint-stock associations,—the structure of this exemption, as in other cases, would have been, to except the companies then formed or in progress to a certain date, and bring all subsequent projects under the general machinery of the statute.

No one asserts that this has been done with respect to partnerships in Cornwall, because the language is as general as words can be. In fine, I must say it is a matter of wonder that we should be so blind as to argue that an exemption of a "principle" can be limited, without express words, to its application within a district; when all must acknowledge that principle, in such cases, can only be developed by the natural expansion beyond its primitive sphere which success promotes in all doctrinal matters. I conclude, therefore, that the pretence that the Cost-book Principle is a snug Cornish monopoly is a "weak invention" of our keen western speculators, to secure for themselves an advantage over the rest of the mining interest, which this would undoubtedly give them, not only in facilities for the formation of associations, but also in the progress of enterprises, a matter of much greater importance to the adventurers.

There are some companies formed on the Cost-book Principle, that, in consequence of the doubt to which I refer, contemplate registering under the 7 & 8 Vic. c. 110; and as I am not aware of any eminent opinion having been taken on the subject, I naturally feel diffident in my own. On that account I intend to have a case submitted to some leading counsel; but as others are as well interested, I have to suggest that there might be more than one opinion taken upon consultation. The expense of so doing would fall lightly on several. If others will co-operate in this, the result would be highly satisfactory, as setting the question once and for ever at rest.—*JURISCONSULTUS.*

MINE ADVENTURERS' ASSOCIATION.

Sir,—I am happy to find that the suggestions made by me last week, for the general association of the mining interest, have met with the most cordial and uniform response from a large number of persons engaged in and devoted to legitimate mining. In a short time I anticipate the formation of a nucleus, around which will be gathered the representatives of the mineral wealth, not only of this country, but of the whole world, and that we shall witness the foundation of an establishment calculated beyond all precedent to promote, foster, and protect the mining interest. For many years this great national field of enterprise has been either neglected or most inefficiently cultivated; and more recently we have witnessed exhibitions of ignorance and empiricism where knowledge and sound practice should have prevailed. In no other legitimate pursuit with which I am acquainted are men of capital and enterprise so much at the mercy of the ignorant and the designing; and nothing so greatly retards the salutary development of this gigantic interest as the frequent disappointments experienced—the sole result of misplaced confidence. In no other pursuit are the light of science and the authenticated results of practice so much needed as guiding stars to the adventurer as in the prosecution of mining enterprise; in no other pursuit can be witnessed so perfect an abandonment of the principles of science, the warnings of practice, and the promptings of common sense. Information on this subject is often sought from the ignorant, counsel from the interested, and protection from the powerful. The union of mine adventurers will restore mining to its legitimate position; its members will obtain all necessary information, scientific and practical; and the institution may be extended to comprehend every species of instruction within the scope of its objects. I shall be glad to receive further suggestions and communications, either addressed to yourself or to me, at the office of the *Mining Journal*.—*THOMAS HARVEY: London, Sept. 18.*

THE MINING INTEREST.

Sir,—Knowledge being power, suppose some clubs, or committees for general information on mining affairs, were opened by subscription in various large towns, nominating intelligent secretaries, to classify minerals, with maps, patents, journals of home and foreign mining, daily corrected lists of prices, names and addresses of pursers, adventurers, and committees of ditto, Stannary laws and rules of cost-book, and transfers to refer to, with a small well-selected useful library. Let gentlemen purposing to invest, and who are unacquainted with mining, learn and inform themselves what they are about to venture on. If they do not, they not only throw discredit on a great science, but have eventually to pay a high penalty for their ignorance. No agent can give unerring advice, and even a daily share list would be far from correct. Self-application can alone avail. It is no use entirely relying on this or that agent, on your Journal, or the Exchange Committee. There is no help for an ignorant man, with a pocketful of money, who expects he will not be made to pay for the knowledge and information he is deficient in, costing others years of toil, loss, and disappointment. If desirable to add confidence to such a mart of information, institute sworn mining brokers, similar to Government ones. To ensure some guarantee or touchstone of respectability, let them each enter into a bond of 1000*l.*, with two sureties of 250*l.* each, and produce a certificate of character from a dozen resident householders. At the same time, there ought to be a check to incorrect reports from mines, sent up to confuse and agitate the market for sinister purposes.—*W. A. ASHIECOURT: Hammer-smith, Sept. 17.*

WEST UNITED HILLS MINE.

Sir,—There are some editorial remarks in your last Journal relative to this mine, which are scarcely fair towards the present shareholders, whom you appear in some degree to mix up with the party whose proceedings you so justly condemn. You are, I believe, aware that some of the present adventurers were amongst the greatest sufferers by that party, and their only crime has been that they have used their best exertions to develop the resources of that which they believe to be an excellent mine, if adequately worked. I was one of the sufferers who have had, as you say, "to contribute, and allow the party still to roam at large." My first impression was to seek redress by legal proceedings; but on reflection, and hearing on all hands that the undertaking was really a promising one, being situated in one of the very best mining districts (that of Illogan), I thought it wiser, instead of throwing away money in law, to spend it in trying to make the best of the mine. Some others in a similar position concurred with me, but unfortunately many would do neither one thing nor another. They would neither pay calls nor resign their shares, but seemed resolved to lie by, whilst others worked the mine, and then, if successful, came in and reap the profit. This, of course, was not to be submitted to, and at last, partly by negotiation and partly by proceedings in the Stannary Court, the defaulters have been mostly got rid of. The present shareholders have no connection with the party named by you, further than that, unfortunately for them, several were amongst the sufferers. You express a hope that you will now have bond-fide mining intelligence from the present parties. You are no doubt aware that Capt. Burgan, of Great Wheel Badden, is the present superintending captain of the mine, and that you have your intelligence from him, which is not likely to be other than bond-fide. With regard to the party whose former proceedings you so justly blame, it was needless to represent him as worse than he really was, and yet you appear to have done so. There is not, I believe, any foundation for the statement that "400 shares were transferred, the whole rightly consisting of only 256," if by that statement it is meant to be represented that at any time more shares were transferred than actually existed. I looked over the cost-book most carefully at the time, and I could not find that a single share

was at any time transferred more than the 256. Indeed, it could not have been done, except with the connivance of the then purser, who was a respectable man, and not likely to lend himself to such a transaction if it had been attempted; but I never heard, and have no reason to believe, that any such attempt ever was made. That the party alluded to sold, from first to last, more than 400 shares, I think likely enough, but it was by buying them up, after having once sold them, and then selling them again—a transaction very different from that which your statement imports. You have also over-stated another matter; the cause against Gustard was not one of a score, but one of five or six. Under the circumstances of this company, I should have hoped that the present adventurers would have had your good will and assistance in their endeavours, rather than that you should have damaged them by a statement, which almost leads to the inference that they were associated, in some way or other, with the party whose acts, at a former period, brought, as you state, so much discredit on the undertaking. *A SHAREHOLDER. London Sept. 11.*

WHEEL ZION.

Sir,—I shall feel much obliged by any of your correspondents affording me some information as to the actual state and prospects of Wheel Zion, there being so many extraordinary statements afloat as to the real nature of the discoveries at this mine. It will not do in this case to adopt alone the old adage, "where it is, there it is," but to state the nature and extent of the lodes; for we must recollect that 50,000*l.* is no joke to pay for a comparatively unworked mine, and which I am informed had been previously abandoned by a most respectable and fully competent proprietary.

I am far from an old hand in the mining world, but having become a shareholder in several companies, from which I have every reason to expect I shall derive a satisfactory return for my outlay, I am desirous, previous to embarking in Wheel Zion, to learn what particulars I can—having been dissuaded from taking an interest by more than one broker. *FAIR PLAY. Queen-square, Sept. 12.*

PETER TAVY AND MARY TAVY CONSOLS.

Sir,—Much has lately been said in your valuable Journal about legitimate and illegitimate mining; the puffing up mines by false reports to get the shares up, and thus enable the promoters to sell out at a premium, leaving their dupes to make the best of a queer bargain. Without in any way charging Captain Heath with an attempt to mislead the public by his reports on the above adventure, but as he calls it "one of the best mines in Devonshire," I most distinctly inform your readers that the present workings do not bear out the high character given by him. I have been on the mine, where there is now a 12-head stamps erected, and carefully examined the pile of tinstuff at surface—with which I am satisfied; but would certainly advise the adventurers to have the mine thoroughly surveyed and inspected by a competent and impartial agent, before they lay out more capital on the faith of the reports hitherto made. Not only do I recommend this course for their own satisfaction, but I fear, if they continue on the present system, their proceedings will realise the old adage, "proceed in haste, and repent at leisure." *AN OLD TAVISTOCK TINKER. Sept. 10.*

WHEEL TONKIN—WHEEL DUCHY.

Sir,—Observing an inquiry, in last week's Journal, respecting the prospects of Wheel Tonkin, I now remark that I have known the district for 40 years, and business having called me there last week, I took the liberty of inspecting it. I found a few pits and two shafts sunk to about the water level, but am not aware what they are looking for, whether tin, copper, or silver; if either of the two former, I thought the lode did not present such appearances as I should wish. I believe the sett to be what was formerly called Wheel Duchy silver lode, which was never known to make copper. If they are working for silver, I did not see any exposed,—but silver is generally kept out of sight of the public. Those inclined to venture had better call, when such specimens they have will be readily shown.—*N. ENNOR: Wiveliscombe, Sept. 15.*

WHEEL ZION—WHEEL ARTHUR.

Sir,—To the many and strange inquiries of late respecting Wheel Zion, I shall forbear entering on, having before given them nearly two months longer to bring it into a state of returning as much ore monthly as the Devon Consols. If any of the Zionites have burned their fingers, they should bear it with patience, having been forewarned.

Capt. Carpenter very kindly offered to accompany me underground at Wheel Arthur, which offer I should certainly have availed myself of, if I had not been unexpectedly called off on other business, and beg to return my thanks to him for his kind offer.—*N. ENNOR: Wiveliscombe, Sept. 14.*

AUSTRALIAN GOLD MINING COMPANY.

Sir,—As some aspersions have got abroad that this scheme is only promoted for the deposit, I beg to inform you and the public that I have concocted the project for no such purpose, but for a very important object, which will soon be apparent. I can also assure you and the public that a regular balance-sheet of the deposit money will be exhibited to the scripholders before any further proceedings are taken, and their opinion will be asked as to the disposal of any balance in hand. *CHARLES GUINNEY, Sec. pro tem. Great Winchester-street, City, Sept. 19.*

THE DOWSING ROD.

Sir,—I send you the following poem, which was written by the celebrated Dean Swift, who gives just as much credit to the dowsing rod as I was ever willing to admit, or the friend of your correspondent, "R. S." appears to have. If you think it worthy of a place in your valuable Journal, I dare say it will, at least, amuse some of your correspondents.—*R. R.: Tavistock.*

THE VIRTUES OF SID HAHET THE MAGICIAN'S ROD.

The rod was but a harmless wand,
While Moses held it in his hand;
But soon as o'er he laid it down,
'Twas a devouring serpent grown.
Our great magician, Hamet Sid,
Removes what the prophet did;
His rod was honest English wood,
That, senseless, in a corner stood,
Till metamorphosed by his grasp,
It grew an all-devouring asp;
Would hiss, and sting, and roll, and twist,
By the mere virtue of his fist;
But when he laid it down, as quick
Resumed the figure of a stick.

So to her midnight feasts the hag,
Rides on a broomstick for a nag,
That, raised by magic of her breech,
O'er sea and land conveys the witch;
But, with the morning dawn, resumes
The peaceful state of common brooms.

They tell us something strange and odd,
About a certain magic rod,
That, bending down its top, divines
When e'er the soil has golden mines:
Where there are none, it stands erect,
Scorning to show the least respect.
As ready was the wand of Sid,
To bend where golden mines were hid;
In Scottish hills found precious ore,
Where none e'er look'd for it before;
And, by a gentle bow, divin'd
How well a Cully's purse was lin'd:
To a forlorn and broken rake,
Stood without motion, like a stake.

The rod of Hermes was renown'd
For charms above and underground;
To sleep could mortal eye-lids fix,
And drive departed souls to Styx.
That rod was just a type of Sid's,
Which, o'er a British Senate's lids,
Could scatter opium fumes as well,
And drive as many souls to hell.

PRICES OF MATERIALS.

As Charged at Stray Park Mines during the following Months:—

DESCRIPTION.	per ton	13s 6d.	14s 6d.
Coal, carriage included	100	13 6	14 6
Timber, balk	per foot	0 1	—
" pine	—	0 8	—
Iron, common	per cwt.	5 6	—
" faggoted	—	7 6	—
" hoop	—	9 6	—
Chain, second-hand	—	11 0	—
Lead, white	—	25 0	—
Nails, patent 4-inch	—	15 6	—
Lime	—	34 0	—
Rope	—	0 4	—
Hemp	per lb.	40 0	—
Tallow	—	—	3 8
Oil	per gall.	—	1 0
Leather	per lb.	1 2	—
Candles, London	per doz.	4 6	—
Powder	per 100 lbs.	34 0	—
Can.	—	—	4 0
Shovels	per set.	25 0	—
Hills	per doz.	1 4	—
Sieves, iron	—	—	30 0
" brass	—	—	40 0
Safety fuse	per coil	0 3	—

THE PATENT WATER-BALLAST STOWAGE BAGS
and PUMPS having BEEN TESTED, and met the approval of practical men, the Public is respectfully informed that all is now prepared for FITTING UP SHIPS, by application to Mr. KIRK, at the Works, GIBSON'S BUILDINGS, NEWCASTLE-UPON-TYNE, where a pamphlet and illustrations may be obtained by, or forwarded to, parties, and where all inquiries will be fully replied to.—*Newcastle-upon-Tyne, Aug. 15, 1852.*

ED. J. DENT has REMOVED from 82 to 61, STRAND (being 21 doors nearer to Charing-cross, and directly opposite Bedford-street), and solicits an INSPECTION of his extensive STOCK OF CHRONOMETERS, WATCHES, and CLOCKS, as above; also at No. 38, COCKSPUR-STREET, and No. 34, RATA EXCHANGE (Clock Tower area).

BLAKE AND PARKIN, MEADOW WORKS
SHEFFIELD.

MANUFACTURERS OF CIRCULAR AND MILL SAWS, Improved CAST-STEEL FILES, for the use of Engineers and Machinists, Patent tempered MACHINE KNIVES and CUTTERS, manufactured for planing and grooving wood, for cutting paper, iron, stone, leather, &c., made to any pattern or dimensions with the utmost exactness. Warranted to work with a harder and finer edge than any other mode of temper.

Inventors of corrosion-proof cast-steel for taps, piston-rods, &c.—Manufacturers of railway springs, blister, shear, and cast-steel, &c. &c.

* * Samples at the Great Exhibition, Class XXII., No. 193.

TO DOCK COMPANIES, WHARFINGERS, COAL, STONE, TIMBER MERCHANTS AND OTHERS.



PATENT STEAM WHIPPING COMPANY.

Messrs. E. & A. PRIOR, the Managers of this Company, are now UNLOADING, by means of an ENGINE, their COLLIERIES in the THAMES, at an average rate of 20 tons per hour, or upwards of two hundred tons per day, and at a considerable reduction in cost. They have numerous highly satisfactory certificates from captains whose ships they have discharged, and to the owners of which the greatly increased dispatch is obviously a matter of the greatest importance.

The remarkably small dimensions and weight of the engine admits of its being placed on, and removed from, the ship's deck with the greatest facility and dispatch, by means of the barge and derrick. These engines are also thoroughly adapted for unloading in the docks, or for permanent use on board all large ships, where, in addition to working out the cargo, they might be most advantageously used for doing all the other heavy work, such as pumping, lifting the anchor, warping &c.

This company are now prepared to contract for the unloading of any quantity of coals, or to grant Licenses for the use of the patent, on application to the managers, Messrs. E. & A. PRIOR, 153, Upper Thames-street, London.

IMPROVED LIFTING JACKS.

MANUFACTURED BY
W. AND J. GALLOWAY,
PATENT RIVET WORKS,
MANCHESTER.

The attention of parties who employ

Lifting Jacks,

is respectfully requested to the superiority of those annexed, over those hitherto in use.



IMPORTANT SAVING IN MINING OPERATIONS.

GUTTA PERCHA HOGAR PIPES AND SPEAKING TUBES IN MINES.

The GUTTA PERCHA COMPANY have been favoured with the following important Letter from EMBREZER ROGERS, Esq., C.E., F.G.S., Abercrombie Fach, near Newport, Monmouthshire:—

March 21.—In reply to your inquiry as to the use of gutta percha as a material for the Hogar pipe used for taking up water in sinking shafts for mines, I have pleasure in stating that my application of it for this purpose is perfectly successful.

The ordinary slide pipe is entirely superseded by the gutta percha Hogar pipe, and it will be evident to every person experienced in mining, that the flexibility and lightness of the latter admits of sampling in any part of the pit, without the great amount of labour attendant on that operation with iron pipes.

The freedom from liability to accidents in blasting, and the great facility with which repairs can be effected in case of damage, cannot fail to recommend your material to the notice of every person engaged in mining operations.

The gutta percha Hogar pipe, which we have now in work at the Abercrombie Collieries, is about 21 feet in length, and after very severe trials in sinking through hard rocks, where the expensive slide and stock would be always liable to breakage, the gutta percha is little worse for wear. I am also glad to state that the 400 feet of speaking tube for communicating between the top and bottom of the shaft answers admirably, and is a great economy of time.

GUTTA PERCHA PUMP BUCKETS.

COPY OF LETTER FROM MR. C. THOMAS, DOLGOATH MINE, CAMBORNE.

Camborne, Jan. 27.—Three gutta percha 19-inch pit boxes, or pump buckets, drawing water 14-feet stroke, have been used and worn out in this mine, and I beg to inform you that they have lasted on an average six weeks each, giving double the average wear of leather boxes, or buckets. This alone is important in saving time and cost of changing boxes, especially in long lifts, and gutta percha requiring no nails for gearing, the working pieces will doubtless last much longer. On the whole, we much prefer gutta percha to leather for boxes.

SYPHONS FOR MINES.

FROM MR. A. CROSFIELD, TY MAUR COLLIERY, NEAR PONTY-PRIDD.

The gutta percha pipe sent me for the purpose of employing it as a syphon for drawing water from a damp heading at these works, answers admirably; and, although the pipe is so small, it is surprising the quantity of water passing through it. I consider that gutta percha piping may be applied in mines and collieries to very valuable purposes, and is especially adapted to be used on the syphon principle, where local circumstances will admit of such application.

MINERS' CAPS.

Northumberland Miner's Cap. Cornish Miner's Cap.

The GUTTA PERCHA CAPS are not only Waterproof, but afford peculiar protection to the wearer from the Falling of Loose Stones, &c. &c. &c.

EVERY VARIETY OF GUTTA PERCHA ARTICLES SUITABLE FOR MINES—viz.

Hogar Pipes, Pump Buckets, Casks, Speaking Tubes, Engine Packings, Syphons, Miners' Caps, Waterproof Socks, &c.

MANUFACTURED BY THE GUTTA PERCHA COMPANY, PATENTEES,

No. 18, WHARF-ROAD, CITY-ROAD, LONDON.

* * Specimens may be seen on application to the Company's dealers.

SEWERAGE OF LONDON.—THE ATTENTION OF THE

COMMISSIONERS appointed to determine upon the MOST EFFICIENT MATERIAL FOR THE CONSTRUCTION OF THE SEWERS OF LONDON, is particularly directed to the ASPHALTE OF SEYSSAL, which more than any other material is applicable to the CONSTRUCTING AND INTERNAL COATING OF BRICK CULVERTS AND OTHER CHANNELS FOR DRAINAGE.

The experiments made by the Royal Artillery on the embankment of Plymouth Citadel, constructed of Seyssal Asphaltic Brickwork, under the orders of the Hon. Board of Ordnance, have fully proved the superiority, adhesiveness, and strength of Seyssal Asphaltic over all other cementitious compositions. A priced account of these experiments can be had on application to F. FARRELL, Secretary.

Seyssal Asphaltic Company—"Claridge's Patent"—Established 1838.

Note.—The application of the Asphaltic of Seyssal is specially recommended by the Commissioners on the Fine Arts for covering the ground line of brickwork in masonry situations, and it has been suggested that it would be peculiarly applicable for covering the areas of closed grave yards, and for the construction of calcareous.

New Patents.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

G. Phillips, Upper Park-street, Islington, for preventing the injurious effects arising from the use of the lining of the neck of the coat;
J. Wormald, Manchester, for improvements in machinery or apparatus for spinning and doubling cotton, wool, silk, flax, or other fibrous substances.
J. S. Leake, Whitehall Salt Works, Chester, for certain improvements in the processes and machinery or apparatus employed in the manufacture of salt.
J. Livesey, New Lenton, Nottingham, for improvements in the manufacture of textile fabrics, and in machinery for producing the same.
F. Barker, Birmingham, for certain improvements in the manufacture of copper, and in the separation of some other metal therefrom, and in the production of alloys of certain metals.

PROVISIONAL REGISTRATIONS.

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T. H. Roberts, Plymouth, drag apparatus.—J. W. Lea, Birmingham, match box.—P. Warren, Longton, danger signal for railways and railway carriages.—J. Cockinga, Birmingham, *soirée* union buck comb.—W. S. Adams, Haymarket, hinged lid for spectacle-cases and boxes.—*Mechanics' Magazine.*

METAL MARKET. *London, September 19, 1851.*

FOREIGN GN. <i>b</i>		Banca, H. C.	4	0
Swedish	11 10 0	Straits	3	19 0
CFND	17 10 0	TIN-PLATES. <i>l</i>		
PSI	—	IC Coke	per box	1 4 6
London	—	IC Charcoal	1	9 0
Indian Charcoal Pigs in London	5 10 0	IX ditto	1	15 0
FOREIGN STEEL. <i>c</i>		SPELTER. <i>m</i>		
Swedish kog	14 19 0	Plates, warehousd	per ton	14 2 6
Ditto faggot	15 0 0	Ditto, to arrive	14	2 6
ENGLISH COPPER. <i>d</i>		ZINC. <i>n</i>		
Sheets, sheathing, & bolts, <i>p. lb.</i>	0 0 9½	English sheet	per ton	21 0 0
Throat cake	per ton 84 0 0	QUICKSILVER <i>o</i>	per lb.	3s 6d

WELSH BAR-IRON is in good request, and for rails there are considerable orders in the market for America, and for a large quantity for the Egyptian Government.

SWEDISH IRON.—Not any transactions are reported. [terracan.
SWEDISH STEEL.—Some small parcels have been purchased at full rates for the Medi-
COPPER is in fair demand.
BRITISH TIN.—Common is in better request, some considerable sales have been made.
Refined is in good demand.

GLASGOW, SEPT. 18.—The pig-iron market has been quieter this week, and less business has been done, and prices have, consequently, declined somewhat; it has arisen principally through the want of vessels, which have hindered the shipments, and the makers refusing to sell at the low rates; there is no doubt that the stocks are diminishing, and the trade may be considered in a healthy state, though the masters have been heavy losers by the low rates ruling during the last two years. The local consumption

MINES.—The market has been tolerably brisk this week, and dividend mine shares generally maintain their prices, whilst in some new speculations the prices demanded (and in many cases obtained) have been, at an

and to take advantage by selling, if they can, at the present high prices. The want of capital in the mining market is generally complained of, and is likely to continue whilst so much is absorbed by new mines, several of

are divided usually into large numbers, generally in tens of thousands; and at starting, they go to a premium, and are probably dealt in in "the house;" but, as a natural consequence, when they drop to a discount, are never quoted in the list, or perhaps heard of within the walls of this place.

veritable for such conduct. We can, therefore, so far congratulate the
 dealing brokers and agents in not having joined the Stock Exchange,
 but having an Exchange of their own; and to whom, we again repeat, the
 public will look for correctness in their dealings. We have not yet been

We are sorry to perceive a drop in the standard at the ticketing for copper ore on Thursday, equal to 14. per ton, from that of the preceding month. In the Metal Market,—Copper remains well inquired for and steady in

The price of bar silver has experienced a still further decline, of $\frac{1}{2}$ d.—being now quoted 5s. 0 $\frac{1}{2}$ d. per ounce, and even at this reduced quotation the market is by no means strong. The price of Mexican and South

The London imports for the week comprise—from Dantzic, 7357 plates of spelter; Stettin, 7671 plates spelter, 18,478 plates zinc; Amsterdam,

from surface is about to be sunk, 32 fms. west from engine-shaft. The new steam-whim is nearly completed.

At West Providence Mine quarterly meeting, on the 10th inst., the accounts showed—Copper ore sold, 7187. 6s. 7d.; tin ore, 11877. 12s. 9d.—1905/1. 19s. 4d.—Dues (1-18th), 1057. 17s. 8d.; labour cost for April, 4207. 9s. 10d.; May, 3797. 16s. 7d.; June, 3657. 2s. 4d.; merchants' bills, 3707. 1s.; showing profit of 647. 11s. 11d.; from which deduct balance last account, 257. 2s. 10d., leaves balance in hand to next account, 397. 9s. 1d. Boundary engine-shaft is 7 fms. under the 73 fm. level, and is worth 207. per fm.; in the next level it is expected Allen's branch will fall into the lode, and in all probability improve it. The 73 west is driving by four men at 30s. per fm., and turning out tin worth 127. per fm. The 63 west by four at 47. per fm., and yielding tin worth 107. per fm.; the backs are all standing, and can be taken away at 2s. in 17. The 53 west is driving by two men at 47. per fm., and turning out tin ore worth 67. per fm.; ten men are stopping the back at 16s. per fathom, which yields 147. in tin ore. Four men are stopping the back of the 40 at 23s. per fathom, and the tin is worth 107. per fathom. The 30 is equally as good, and the prospects generally were never better.

At Wheal Sihney meeting, on Tuesday, the accounts for four months, ending July, showed—Balance from last account, 237. 2s. 7d.; costs and merchants' bills, 2047. 5s. 8d.—2277. 8s. 3d.—By ores sold, 177. 1s. 1d.—call of 10s. per share, 1217. leaving balance against adventurers, 897. 6s. 4d. A call of 17. per share was made.

At the Bridford Consols meeting, on the 9th inst., the accounts for three months ending July showed—Balance against adventurers to the end of April, 157. 2s.; mine cost for three months, 1347. 4s. 5d.—1497. 6s. 5d.—By call, May 20, 1287. leaving balance of 217. 6s. 5d. against adventurers. A call of 10s. per share was made. [The reports are inserted among our Mining Correspondence.]

At Okel Tor meeting, at Plymouth, on the 9th inst., the report of the managing agent (W. B. Colman) having been read, was entered upon the cost-book, and the necessary measures to carry out the recommendations therein conveyed were unanimously agreed to. A consulting committee of four were elected to confer with the agent and engineer as to the purchase and immediate erection of a suitable steam-engine for developing the mine in depth, for which purpose a call of 5s. per share was made. The engine-shaft is down 30 fms. under surface, and a 20 fm. level cross-cut driven 6 fathoms, where they meet the silver-lead lodes at the junction, forming one lode more than 12 ft. wide, with a leader of about 5 feet, of silver-lead ore, prisms, spar, munda, and copper ore; the water, however, prevented them pursuing it. Nothing more can be done without a steam-engine. The adit is driving on the lead lode north, to intersect a gossan lode seen on top of the hill, underlying south. The shaft will command all the lodes, and from the soft nature of the ground much may be laid open in a short space of time.

A meeting of the adventurers in North Wheal Buller took place on Wednesday, when the accounts were passed, and encouraging statements as to the future prospects were received from two directors, who inspected the mine a few days since: there are important improvements in the lower levels. Reports from the inspecting captain, and Captain Sinecock, with proceedings of the meeting, will appear in our next Journal.

At the Devon and Courtenay Consols meeting, on Tuesday, the accounts showed—Balance last account, 167. 10s. 4d.; July cost, 5397. 12s. 9d.; August, 2827. 15s. 7d.—8997. 18s. 8d. By copper ore sold, 1277. 8s. 4d.; call, July 15, 8327. leaves balance to next account, 307. 10s. 4d., as audited and passed. The under-mentioned shares were declared forfeited for non-payment of calls—viz.: John White, 22; M. W. Shaw, 10; Charles Green, 5; also Mr. Halket, 50, and Mr. Mitchell, 50, which have been sold to purchasers who have failed to register them—the number now on the register book being only 4023—resolved, the same be confirmed. A call of 4s. per share thereon was made. The engine-shaft is 9½ fms. below the 60 fm. level; in two months they expect to intersect the lode at the 70. Cartwright's shaft is 7 fms. below adit, now passing through a bed of elvan. In July, 6 fms. were stopped in the back of the 60, and yielded 15 tons of ore. If the ground holds as at present the tributors will get good wages. The wheel at the western mine is 30½ ft. diameter—9 ft. over the breast, with a full supply of water from the River Tavy; the length of the rods to Rendle's shaft is 154 fms. They expect to sample 20 tons of ore by the end of the month.

At Warleggan Consols bi-monthly meeting, on the 5th Sept., the accounts showed—Balance in hand last account, 697. 3s. 8d.; calls received, 2297. 10s.; sale of ore, 567. 16s. 2d.—3357. 9s. 10d.—Costs for May and June, 1757. 19s. 1d.; secretary's salary and disbursement in London for two months, 217. 1s. 8d.; leaving balance in hand, 1587. 9s. 1d., as per auditors' statement. A deputation had recently returned from inspecting the mine, and expressed themselves well satisfied with the efficient state of the machinery and progress of the operations generally. In less than two months they expect the engine-shaft to be down 12 fms. under adit, and the north shaft is 8 fms. deep; lode not yet intersected in the south cross-cut: 270 shares are in arrears 337. 15s. on call made 1st December; 440 shares on that made 3d April, 337; and 3250 shares on the last made, 1st August, 4067. 5s.—4737.

At the Cockley Beck Mining Company's meeting, held at Liverpool (S. McCulloch, Esq., in the chair), the accounts, which had been audited by the committee showed—First call, 2507; less arrears, 577. 10s.—1927. 10s. By working costs, four months, including agents' salaries, 1607. 13s. 3d.; merchants' bills, 147. 18s.—1757. 11s. 3d.; leaving balance in favour of the company, 167. 18s. 9d. The estimated outlay to cover costs for the ensuing two months' working were 1007.—to meet which a call of 2s. 6d. per share was made. The report of Capt. Benjamin Tucker was very encouraging, and he exhibited some rich stones of copper ore, estimated to produce 25 per cent. for copper from the forebreast of the deep adit; these were broken from a bunch now left on the sole of this level. The captain expresses a confident opinion that this bunch will turn out more ore than the mine has yet produced. The assay of this ore, by Dr. Sheridan Muspratt, is 24.65 for copper. The upper adit now shows every indication of the near approach to a body of copper; spots of copper in a rich gossan form the stuff now driving upon in a lode, 3 ft. wide.

At Trethvey Copper Mine meeting, on Monday the accounts showed—Cash received, 4527. 17s. 6d.—Balance last account, 697. 9s. 2d.—Cost for June, 1727. 11s. 9d.; July, 1927. 17s. 6d.; leaving balance to next account, 177. 19s. 1d. A call of 17. per share was made, to clear off all liabilities. Captain Seymour's resignation was accepted, and the committee requested to select an agent in his place. The report of Mr. Noah Coward states that the progress of the shaft is impeded by a hard elvan. The lode in the 40 is expected shortly to be cut, and soon after both lodes in the level under. The engine-shaft had been sunk 3½ fms. in the two months. The lode in the 40 is large, but poor.

At Wheal Lemon meeting, on the 5th inst., the accounts showed—Balance last account, 797. 12s. 11d.; labour costs from March to end July, 4667. 9s.; merchants' bills, 5607. 13s. 5d.—11067. 15s. 4d.—By call, March, 5007. leaves balance to next account, 6067. 15s. 4d. A call of 17. per share was made. The engine-house is going to receive the engine, all the heavy parts of which are upon the mine, including two boilers, capstan, shears, &c. The flat-rod shaft is timbered and secured, and against the next meeting favourable intelligence is confidently expected.

At Great Sheba Consols Mine meeting, on Monday, the accounts showed—Cash received, 5667; less balance last account, 1557. 8s. 11d.; costs for June, 2037. 0s. 2d.; July, 1517. 2s. 11d.; leaving balance to next account of 367. 8s. A call of 17. 5s. per share was made payable on the 25th inst., to meet 4007, due to Messrs. Nicholls, Williams, and Co. The large wheel is expected to go to work on the 1st October. Mr. Noah Coward reports that the north shaft is down from surface 27½ fathoms, and is sinking at 137. 10s. per fm. That on Vatcher's lode is 12½ fms.; but suspended on account of water.

At Wheal Gill meeting, on Monday, the accounts showed—Balance last account, 697. 6s. 4d.; cash received, 6707.—7397. 16s. 4d. Paid lesses, 507; June cost, 1207. 7s. 4d.; July, 1707. 15s. 3d.; balance for engine 3507. leaving balance to next account, 487. 13s. 9d. It was resolved that those parties in arrears of calls be requested to discharge the same within a week, as it is the determination of the committee not to permit debts to accumulate, and that the said committee do meet in one week, to give instructions as to what course is to be adopted, in case any arrears of calls should then remain. The report of Mr. Noah Coward states, that the engine-house is completed, and the engine is expected to be set to work in two or three months hence: when the water is forked the mine will be developed with all speed.

A meeting of adventurers in Wheal Fortune Silver-lead Mine, at King's Mill, Llandulph, was held at Cargreen, on Wednesday, when a favourable report was received from Capt. Penluna, of Wheal Providence, and all parties appeared delighted with the future prospects of the mine. [The report is among our Mining Correspondence.]

At Tremar Mine bi-monthly meeting, on the 10th inst., the accounts showed—Balance in hand from last account, 1547. 4s. 3d.; call, 2357.—3897. 4s. 3d.—To June cost, 837. 6s. 11d.; July, 1007. 10s.; leaves balance in hand to next account, 2057. 7s. 4d. A call of 10s. per share was made to meet the cost of steam-engine, &c., and the purser was instructed to take legal proceedings against all shareholders in arrears, if not paid on the 25th inst.—49 shares that had been abandoned were accepted on behalf of the company. The driving on the course of Raby's lode yields occasional stones of copper ore. The engine-shaft is down 12 fms. below the surface, and the horse-whim put to work.

It affords us pleasure this week to refer our readers to the highly prosperous reports received from Wheal Tremayne and Alfred Consols Mine, both of which will be found in another column.

At Runnford Coombe Meeting, on the 16th inst., the steam-engine and stamps, with working gear complete, were sold to Mr. Manuel for 9007., less 2½ per cent. discount. Capt. Martin Dunn reported that three weeks' raising of stinuff was from 10 to 12 cwt., worth 37. per cwt. [The report is among our Mining Correspondence.]

The engine at Wheal Crebor goes to work this day. Trebell Consols adventurers have purchased the engine from Runnford-coombe Mine; the house is progressing, and the engine will be moved into it and set to work with all speed. Good results are expected to follow.

We understand that the majority in Calstock Consols has been obtained by the Wheal Zion party, and it is expected the two sets will be amalgamated. The chief of the lodes run through the two mines for nearly a mile, forming a junction in the Calstock property. Our correspondent adds:—"No one can go on the spot without being perfectly satisfied that if Zions are worth 84. or 97. in the market, Calstock Consols should be worth double."

At Wheal Williams the water is forked to the bottom of the shaft, or 30 fathom level. The lode standing in the end of the shaft, so far as cut down, is 3 to 4 ft. wide, and very promising, containing rich copper ore. At Silver Valley and Wheal Brothers they are progressing favourably, as will be seen by the report among the British Mines.

Several shareholders will leave London this evening (Saturday) to visit the Great Bryn Consols Mine.

At Black Craig Mine they have commenced driving a 40 fm. level east and west under the ore ground they had in the 25, where they have three good pitches working—one of which has yielded 10 tons of ore per fm., at 35s. per ton, dressing included. Five other paces of tributors are working in the same level, and raising a fair quantity of ore; besides four others in the 7 fm. level doing well. August ore is estimated at 100 tons, Sept., 120—one cargo of which has been shipped, and next week another will be put on board.

Wheal Carpenter (Tavistock) is being prosecuted with the utmost vigour, and we are informed never looked more promising than at present.

At Nancekuke the lead lode continues to look well: the sampling will be about 40 tons of silver-lead ore.

We have the satisfaction to announce the fact that the Phoenix Mine is upon the eve of declaring a third dividend, and that the Kirkcubright Mine is now paying her first—say, 5s. per share.

We are credibly informed that the number of applications already received by the Devon Copper Ore Smelting Company are for 26,000 and odd shares, a considerable portion of which are from parties resident in the counties of Devon and Cornwall, and as they double the number to be issued, a premium is already giving in the market for the coming out.

We have been gratified with a sight of the veritable gate-post, which has been brought from Tavistock in its pristine state (6 ft. high, hangings and all) to St. Dunstan's-hill, and is justly pronounced by all the mining men who have beheld it as worthy a place in the Crystal Palace. It weighs about 12 cwt., showing copper and greens from end to end. The parties who hold the sett are working on other lodes, from which several large and rich specimens of copper ore accompany the stone of larger growth.

Business has been transacted in Alfred Consols, West Providence, Trellawny, Silver Valley, Mary Ann, Venton, Black Craig, Merilyn, South Caradon, West Caradon, Cockley Beck, Wheal Reeth, Bedford United, Wheal Crebor, Devon Great Consols, Hingston Downs, West Alfred Consols, Boringdon Park and East Boringdon, South Tamar, Ponzance Consols, East Wheal Russell, Devon and Courtenay, Wheal Lemon, and Wheal Williams.

In Foreign Mines, shares have changed hands in National Brazilian at an advance: business has also been done in St. John Del Rey, Santiago, and United Mexican.

The dividend declared by the Barra Barra Mine, we believe, was 57. per share. The particulars have not yet arrived in England.

The Worthing Mining Company have advices to the 19th May, which will be found in another column. The workings have been impeded by water—in fact, little can be done till the engine has been put to work. The Gully south end is reported worth 167. per fm.

From the National Brazilian Mines the advices are to the 29th of July. The accounts are satisfactory, although the produce is less than last month. The decrease, however, is apparently of only temporary duration; Coceas, for 30 days, being Mks. 17 4 5 55, and Cuiba, Mks. 5 6 7 24: total, Mks. 23 3 2 7. More borers are about being set to work at both mines, and at Cuiba in about six weeks they expect to be stopping away below the old excavations at Hitchens's level, with double forces. At the office we saw some stones of pure gold in the jacotinga and quartz, just received from the Coceas Mine, the gold showing a continuous vein for 8 or 9 in. long, and disseminated throughout one side of the stone; fine specimens of the sort.

From the Linares advices have been received from Capt. Curry to the 7th inst. The San Thomas engine-shaft progresses downward satisfactorily. The 55 west is yielding 3 tons of lead per fm.; the stopes east from 5 to 6 tons per fm. A new pitch in the back, at 1½ real per arroba, bids fair to produce a considerable quantity of lead ore. The 55, east of Shaw's, is turning out 2 tons per fm., and leaving good tribute ground back and bottom. The shaft is nearly down. The tribute department altogether looks well—18 pitches, working at an estimated tribute of 30s. 6d. per ton, dressing included. The raisings for August exceed 200 tons, and the calculation for September is 240 tons. Lead ore weighed in to the 7th Sept., 55 tons; total in stock, 427 tons; pig-lead smelted, 24 tons 6 cwt.; total in stock, 346 tons 2 cwt.

MINING COLLEGE IN CORNWALL.—We have just learned that there is every probability of the once-contemplated "Mining School" being shortly brought before the notice of the county, with a view to establish a Mining College.

MINING IN CAMBORNE.—Any person of an observant turn resident in, or conversant with, the chain of mines lying between Gwennap Consols and the town of Camborne, will have remarked that the chain has of late years been extending westward; and we think that much valuable ground probably lies undeveloped to the west of Stray Park, North Roekar, and Wheal Seton. There is a sett called in Mr. Symon's map "Capt. Lean's sett," for want, we suppose, of a name, and because Capt. Stephen Lean, of Wheal Seton, is the lessee, which is virgin ground, but which appears to be so situated as to leave an impression in favour of its being tested. We have no doubt that some party will, ere long, think it worthy their attention, and co-operate with Capt. Lean in exploring the lodes which intersect it. He is so confident of a successful result that he will, we are informed, retain a large share in the adventure.

NOVEL IRON BUILDING.—A lodging-house has just been constructed at King's-cross, by Messrs. R. McKean and Co., of Birkenhead, which is attracting much attention, from its commodiousness and beauty: it is 75 ft. long by 25 ft. wide, and two stories high, entirely framed of malleable iron, with strong plate iron walls, ingeniously made to slide into grooves formed in the upright standards, without bolts or rivets, and thus obviating all difficulty in putting together or taking asunder the house, which is covered with a circular corrugated iron roof. The entrance is by a handsome saloon, 70 feet long, with a table running the whole length, on each side of which the bed-rooms are arranged. From thence you pass up a handsome flight of steps, right and left, to the gallery, to another double range of apartments, altogether forming a particularly neat and comfortable establishment.

IMPORTANT TO PUDDLERS.—At the Bilston Petty Sessions, an underhand puddler, S. Alcock, was summoned by his master, H. Morgan, for absconding himself from his work, without giving the usual notice. Alcock, in defence, said the reason he left was because his master would not pay him extra for making "scrap ball." Several experienced puddlers were examined, who said it was not customary to pay the underhand extra for making scrap ball. Mr. Leigh, addressing the defendant, said it was the first time such a case had been brought before him, and under these circumstances he should not commit him to the house of correction, as he otherwise should have done. The case was accordingly dismissed; the defendant to pay costs.—*Wolver. Chronicle.*

An anthracite smelting furnace has been recently erected at the Hean Castle Works, near Saundersfoot, which was put in blast about three weeks ago, prior to the opening of coal and mine pits, &c.; the experiment was highly successful, and reflects great credit on those engaged in erecting it.

LEAD ORES.

TICKETINGS FOR 35 TONS SILVER-LEAD ORE FROM ALL-TY-CRIB MINE.			
Bidders.	Sold at Aberystwyth, on the 12th Sept.	Amount Bid.	
Newton, Keates, and Co. (purchasers)	£10 15 0	
Locke, Blackett, and Co.	9 12 6	
Mitchell and Son	10 1 6	
Pontifex and Wood	8 16 6	
Sims, Williams, Nevill, and Co.	10 13 0	
T. Somers	10 11 6	
Tamar Smelting Company	8 1 6	

TICKETINGS FOR ABOUT 90 TONS FUXDALE LEAD ORE.

Bidders.	Douglas, Isle of Man, Sept. 16.	Amounts Bid.	
Sims, Williams, Nevill, and Co. (purchasers)	£10 17 6	
Walker, Parker, and Co.	10 17 0	
Newton, Keates, and Co.	10 16 0	
J. P. Eyron	10 11 0	
T. Somers	10 5 6	
Tamar Smelting Company	8 2 0	
Pontifex and Wood	9 5 0	
Locke, Blackett, and Co.	9 10 0	
W. J. Cookson and Co.	9 15 0	

Mines.	Tons.	Price per Ton.	Purchasers.
Wheal Holden	56	£11 15 0	J. T. Treffry.
Wheal Mary Ann	42	20 17 6	Sims and Co.
ditto	42	20 17 6	Locke and Co.
East Wheal Rose	86	14 0 6	T. Somers.
ditto	5	18 6 0	Locke and Co.
ditto	16	14 0 0	T. Somers.
Herodsfoot	55	11 8 6	Sims and Co.
Tamar	51	17 18 6	T. Somers.
ditto	52	18 9 6	Tamar Company.

COPPER ORES.

Sampled August 27, and Sold at Swansea, September 16, 1851.

Mines.	Tons.	Prod.	Price.	Mines.	Tons.	Prod.	Price.
Cobre	99	164	£12 2 6	Berhaven	126	101	£7 12 6
ditto	91	162	12 1 0	ditto	123	102	7 9 0
ditto	74	162	12 2 6	ditto	102	106	7 11 0
ditto	69	162	12 1 6	ditto	82	102	7 9 0
ditto	61	24	18 19 6	Spanish	60	65	5 3 6
ditto	57	24	18 11 6	ditto	54	72	5 3 6
ditto	55	23	18 6 0	Waterloo Slag	83	46	3 14 0
ditto	13	80	49 10 6	ditto	9	18	0 15 6
ditto	10	18	13 1 6	ditto	8	8	6 0 0
ditto	103	15	13 1 0	ditto	6	13	9 15 6
ditto	96	14	10 18 0	Greenbourne	49	98	7 12 0
ditto	93	15	11 0 0	Lackamore	39	85	6 12 0
ditto	48	25	19 8 6	Montreal	34	14	11 9 0
ditto	38	25	18 18 6	Gyffron	21	23	18 10 6
ditto	100	14	11 3 6	ditto	6	9	7 4 0
ditto	60	16	12 3 6	Ballyhoolligan	8	14	10 19 0
ditto	11	80	59 12 6				

TOTAL PRODUCE.

Cobre	1079	£1544 5 0	Lackamore	39	£257 8 0
Berhaven	433	3258 2 0	Montreal	34	389 6 0
Spanish	114	589 19 0	Gyffron	27	431 17 0
Waterloo Slag	106	337 11 6	Ballyhoolligan	8	87 12 0
Greenbourne	49	351 11 6			

COMPANIES BY WHOM THE ORES WERE PURCHASED.

	Tons.	Amount.
English Copper Company	495	£1382 7 6
Freeman and Co.	49	412 13 0
Pascoe Grenfell and Sons	216	2648 9 0
Sims, Williams, & Co.	154	1335 7 0
Vivian and Sons	292	3217 17 0
Williams, Foster, and Co.	42	476 18 0
Mines Royal	55	394 18 6
Schneider and Co.	126	1891 19 0
British and Foreign Copper Company	83	1622 11 6
Mason and Elkington	77	1413 6 0
Low's Patent Copper Company	126	950 15 0
F. Bankart	149	2492 10 6
Total	1889	£21,249 12 0

Copper Ores for Sale Sept. 30.—Cobre, 96, 82, 81, 60, 58, 47, 43, 23, 12, 91, 90, 68, 67, 63, 49, 48, 22—Chili, 54, 53, 52, 51, 50, 49, 48, 40—Berhaven, 104, 95, 82—Knockmahon 80, 75, 63, 49—Kaw-aw, 40, 34, 22, 1.—Total, 2042 tons (21-cwts.)

AVERAGES.

Produce.	Price.	Standard.
British	9 11-16	£7 3 0
Foreign	17 15-16	£9 9 6
Sale	15½	£11 5 0
Totals—British 662; Foreign, 1227=1889 tons (21-cwts.)		

AVERAGES OF LAST SALE.

Produce.	Price.	Standard.
British	9½	£7 9 6
Foreign	16	£11 8 0
Sale	14½	£10 12 6
Totals—British, 575; Foreign, 1401=1976 tons (21 cwts.)		

COPPER ORES.

Sampled Sept. 3, and Sold at the Royal Hotel, Truro, Sept. 18.					
Mines.	Tons.	Price.	Mines.	Tons.	Price.
Devon Gt. Cons.	106	£5 16 0	Wheal Anna Maria	44	£5 14 0
Wh. Josiah	3	4 7 0	West Caradon	66	6 0 6
ditto	96	5 14 0	ditto	62	8 8 6
ditto	93	5 14 0	ditto	58	8 8 0
ditto	90	4 7 0	ditto	46	8 17 0
ditto	89	7 15 0	ditto	39	3 18 0
ditto	88	5 10 0	ditto	32	8 8 6
ditto	80	5 2 6	Wheal Friendship	106	6 5 6
ditto	75	4 14 6	ditto	72	6 15 0
ditto	74	5 14 0	ditto	37	4 7 0
ditto	65	4 4 6	Fowey Consols	78	5 12 6
ditto	60	7 17 0	ditto	67	5 8 6
ditto	59	3 11 0	ditto	36	5 9 0
Wh. Fanny	98	6 15 6	Bedford United	84	6 8 0
ditto	95	6 8 0	ditto	62	4 17 0
ditto	92	6 8 0	Poldice	7	4 16 0
ditto	83	5 16 0	ditto	36	4 16 0
ditto	86	2 7 0	Wheal Jewel	20	4 16 0
Wh. Maria	67	6 4 0	Wheal Maiden	13	5 12 0
ditto	31	9 11 0	Old Crinnis	9	2 11 0

NOTICES TO CORRESPONDENTS.

PEAT-CHAR (COAL) AS A MANURE.—Sir: It has been demonstrated that charcoal absorbs gases and vapours with variable force—the latter more energetically than the former, and the densest charcoals (charcoal, *villosa* distil) absorb more than the lighter ones; e. g. boxwood char, much more than dealwood char, and the act of pulverisation of the charcoal destroys the faculty altogether. These, Sir, are the known facts which crude theory has to assail. Peat charcoal is very nearly in the physical condition of pulverisation. In its unburnt state it is a firmly fibrous mass, nearly devoid of porosity, or at least that kind of porosity upon which the faculty of vapourous absorption and retention depends, and the act of "charking" still more destroys the remnant of organic porosity inherent in the turf or peat, and which once abounded in the roots and stems and leaf-ribs in their normal and fresh state. I will not be bold enough to assert that Mr. Jasper Rogers copied his notions of peat charcoal in its application as a manure, &c., from my published facts, but I opine that something like this could be substantiated by a comparison of the verbiage of his first publications on this subject in 1846 or 1847, with mine in 1845 and 1846. I have published the facts that bone carbon possesses the property of absorbing and retaining ammonia and other vapours in a high degree, even when in the pulverised state; and my conviction is, that Mr. Rogers and others of the past school have copied these notions, and applied them to their respective hobbies, without examination, and *deliberately*. It will be found that Dr. Anderson's *dogma* in the *Mining Journal*, Sept. 6, 1851, is not far from the fact, if not actually the fact. The facts that I gave to the public in June, 1845, as being the properties of animal charcoal, cannot be claimed for wood, and especially peat charcoal, for the reasons given above. Some of them, thus as published by me, in a prospectus of the "Central Gas Light and Manure Company," in 1846:—1. Animal charcoal augments the absorbent powers of the soil, by increasing its capillary porosity. 2. From its property of effecting the nascenty of gases and vapours, it constitutes the soil a storehouse of fertility. 3. By its own oxidation and disintegration it supplies phosphates to the roots in the soil, and carbon to the leaves of plants. 4. From its great power of absorbing vapours, liquids and gases, and effluvia, of manures, it is a vegetable fertiliser of no ordinary capacity, and six other properties of like import. The Doctor says—"under ordinary circumstances;" and so say I—but I believe that peat-char may be made to perform these claimed and desirable agricultural functions in a sufficient degree in its mode of preparation. Wm. RADLEY, Ch.E.

We are requested to state that the name of Mr. J. J. Reynolds, of 23, Threadneedle-street, has been used without his consent, as the agent employed in the disposal of shares in Great Wheel Tonkin and Wheel Matilda.

"M. P."—The enquirer will be obliged by information respecting the best and most economical means of pumping at least 150 gallons of water per minute from mines about 70 yards deep, and where the apparatus may be seen?

"A Miner" (Redruth).—Mr. Whitburn's "Tables for the Use of Persons Employed in Mines," will be published in December: the volume will contain upwards of 300 pages—nearly all figures: the price to subscribers, 5s.; non-subscribers, 7s. 6d. Names can be addressed to our office, in London, or to the author, Liskeard.

"An Inquirer" is informed that the "Cost-book System" gives every shareholder the opportunity not only of always knowing who his co-partners are, but distinctly shows those who have paid their calls and those who have not—the resident shareholder, by attending in person the bi-monthly accounts, sees this for himself; the distant one has only to delegate his proxy to do the same; and in the absence of doing, a polite request made to the purser ought, in every case, to bring the desired reply. Of course, the purser must make more frequent calls wherever any shareholder is allowed to stand in arrears; and merchants, or other creditors, can come upon any individual shareholder for the amount of their demand: he has his remedy afterwards by claiming contribution from the solvent shareholders. It is the Cost-book System (truly observed) that prevents shareholders being thus taken by surprise; the naked truth stares them in the face, if they only would be wise and look to their own interest.—See "Argus's" letter in our last Journal.

"C. P. C."—If our correspondent will state any mine now working that has, during the present term, paid dividends, we shall be quite ready to place it among those on our first list; those that have done so on former workings, and not the present, are not entitled to be there.

PAID-UP MINES.—In answer to several correspondents, we have ascertained that this concern has paid dividends recently, and is now on the eve of clearing a third, but it is difficult to obtain information therefrom; the shareholders are not many, and they seem to prefer keeping the knowledge of dividends to themselves. If any one of them will enable us to fill up the blanks in our column respecting it, we shall feel obliged by their so doing.

"S. H." (Cornhill) will see that his correction was attended to in last week's Journal. Providence Mine is certainly cheap at 14,000*l.* for the mine, compared with some new "bals" that have recently started, and scarcely had a pick in them, quoted thus—
4095 shares, 1*l.* paid, price 9*l.*, or 36,855
6000 shares, 2*l.* paid, price 4*l.*, or 24,000
1024 shares, 1*l.* paid, price 18*l.*, or 18,432
3000 shares, 2*l.* paid, price 10*l.*, or 30,000
4000 shares, 10*l.* paid, price 3*l.*, or 12,000

Providence Mine has paid back already in dividends 18*l.* 4*l.* 6*d.* per share to end of last month—a regular dividend-paying mine, while the five above referred to have to make call upon call, and will take years to become, if they ever are, dividend-paying mines.

CARADON VALE MINE.—Sir: I should feel obliged if any of your correspondents would favour us with some information respecting the progress of this adventure.—ENQUIRER.
DEVON BURRA BURRA.—Sir: As a constant subscriber to your valuable Journal, and seeing frequent accounts of this apparently highly-favoured mine, I cannot understand how it is that it has never made its appearance among your list of mines, nor any account as to the value of shares, or where they can be obtained. Perhaps some of the parties interested will furnish the particulars.—AN ADVENTURER: Sept. 17.

RECHIE'S IMPROVEMENTS IN LOCOMOTIVES.—We find that an unfavourable inference might be drawn from the concluding part of our article in last Saturday's Journal, as if the inventor could not use the steam expansively: we believe he has the means of cutting off the steam at almost any part of the stroke, and that too by a very simple valve, whose working does not interfere with the slide valve, nor does it encumber the gearing. We shall have some further particulars to publish shortly.

A correspondent, writing from Paris, wishes to ascertain some information respecting a company with a capital of two million francs, established by Royal Decree, in Lisbon, in 1849, for working mines of carbonaceous green copper in Algarves, in Portugal, which is stated to be supported by English capitalists; and he inquires what is the value of the 40*l.* shares?—[Perhaps some of our correspondents may be enabled to afford the required particulars.]

"A. Z." (Lime-street).—The right of the Crown to mines in which gold and silver are found unaccompanied by other metals, as well as mixed with others, would, if a case should arise, be a matter of some doubt: such rights, however, as well as those to pre-emption, which still exist under certain circumstances, appear too remote and obsolete to be worthy discussion. We should be glad to receive a description of the invention referred to.

WHEAL MARY EMMA.—We have received a long communication from Capt. W. Heath, in which he details a series of complaints against the management of this mine. From Mr. Heath's statement, it would certainly appear that he has been treated with, at least, a want of consideration, and of that gentlemanly feeling which generally actuates directors in their correspondence with the shareholders in conducting their operations. Mr. Heath, without intimation, has been discharged, and another captain appointed. On application to the purser for the arrears of his salary, he was, after some delay and prevarication, referred to the company's solicitor, who, after interviews and correspondence, now states that he has no instructions to pay—accompanied by the consoling information, that assistance can only be procured through the Court of Chancery, the captain being a shareholder! What makes the case appear still worse is, that, on the eve of his discharge, the committee visited the mine, and expressed themselves satisfied with its appearance. Capt. Heath, in referring to various reports since his leaving, makes some judicious observations respecting the mistaken policy of the Government in compelling us to omit all names from them. If one had been attached to that published in the Journal, dated May 24, wherein it is stated that "there is a large parcel of tin under the process of dressing, and will be ready for market shortly,"—an enquiry might be made, what has become of the proceeds?

WHEAL LOVEL.—Sir: In your "Notices to Correspondents," in last week's Journal, I observe that a correspondent has communicated that Wheal Lovel, on 8th August last, declared a dividend of 2*l.* per share, and that such dividend will make 8*l.* per share in two years. Now, as a recipient shareholder in that mine, I beg to state that I received my first dividend from it, of 2*l.* p. r. share, in November, 1850; my second, of a like amount per share, in February, 1851; my third, of a like amount per share, in May, 1851; and my fourth, of a like amount per share, in August, 1851—consequently, the mine has paid its shareholders in one year 8*l.* per share.—AN OBTUSE SHAREHOLDER: Sept. 18.

GOLD IN SOUTH AUSTRALIA.—We have frequently published notices of the existence of gold in the colony. Our correspondent also informs us that he is perfectly acquainted with its exact locality, and will communicate with any responsible parties who may address him on the subject.

ANGLO-CALIFORNIAN GOLD MINING ASSOCIATION.—The several communications and remarks having reference to this company are necessarily deferred from their length; and, moreover, being in communication with parties on whom we consider every reliance can be placed.

Mr. Hopkins is yet in London, having been detained by pressing business: he will, however, leave in a few days;—in the meantime letters may be addressed to his office.

THE MINING JOURNAL.

Railway and Commercial Gazette.

LONDON, SEPTEMBER 20, 1851.

The *MINING JOURNAL* is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all newsgates, at the Royal Exchange, and other parts of London.

As might naturally be expected, the rapid extension of mining operations throughout the kingdom is leading to the formation of new establishments for the conversion of the various ores into metal, and for other purposes connected therewith, in order to keep pace with the increased production of copper, tin, and lead, which may be looked for from the numerous recent additions to the means of development of our mineral wealth. Two proposed undertakings of this character have just come to our knowledge—one for the extraction and perfect separation of the various elements constituting the ores of copper—the other for the smelting of tin ores.

With reference to the first-named of these proposed measures, we may observe, that it has long been a matter of deep consideration with those engaged in the smelting of copper ores, how most effectually to accomplish two objects; first, to get rid of the deleterious effects resulting from the conversion into vapour, in the pro-

cess of smelting, of the sulphurous and other injurious bodies which constitute so large a percentage of the copper ores of this country, and of those imported from some parts of the world, now contributing to our supplies of that metal; and, secondly, to obtain more effectually than has hitherto been done, the various components of these ores. By a document now before us, it would seem to be the intention of the patentee (for the project is made the subject of a patent, and is proposed to be carried out by a company), to bring the ores to a state admitting of their being, by chemical agencies, reduced to their primitive elements, distinctly separable into each, in their respective existing proportions. It appears, according to the statements in this document, that the sulphurous matter, now wasted in a shape highly prejudicial to animal and vegetable life, can be converted into a merchantable product of large consumption, and that certain valuable alkaline bodies may be obtained by proposed combinations; whilst the more solid products will be absorbed into their principal element—copper—and the proportions of other metallic bodies co-existent in the ores, including silver, which, it would appear, is contained in some copper ores in no inconsiderable quantity, will be fully compensatory for the cost and labour of the process of extraction. We are aware that, for some time past, and with a certain amount of success, attempts have been made to separate the silver known to exist in many of the ores of copper; but it may be somewhat doubtful whether, from the processes resorted to, the products have not been obtained at the cost of more than a guinea for every pound's worth of the precious metal produced. The proposed undertaking appears to have been proved in practice upon a smaller scale than that now submitted; and if accomplishable in the manner suggested—and the known chemical talent of the projector is favourable to such a conclusion—it must cause a material change, almost amounting to revolution, in the mode of treating copper ores hereafter.

The second undertaking above alluded to—the smelting of tin ores—is of a much more simple character. There is, doubtless, ample scope for additional works in this known profitable branch of our metallic trade; and the proposed new company, calling themselves the "Truro Tin Smelting Company," would seem to stand possessed, under judicious management, of every chance of substantial success. They put forward the intention of conducting their business with a capital of sufficient amount; and as they state that they have secured smelting-works, ready for active operations, the latest erected in the county of Cornwall, and constructed on the most approved principle, at a moderate rental—thus avoiding the expenditure of a large amount of capital and loss of time in the erection of new works—they consider that they enter upon their undertaking on very advantageous terms. The number of tin mines recently opened, taken in conjunction with the manifestly increasing consumption of that useful metal throughout the world, stamps the undertaking in question with a perfect character of legitimacy—divested of that spirit of speculation frequently allied to measures of this nature.

The important part which central America will certainly be called upon to play in the commercial history of the world renders everything connected with that little district—little, that is, in comparison with the two great continents which soar away north and south of it—of deep and permanent interest to the world at large. Attractive as the subject is, it is not our present purpose to enter into an extended enumeration of the capabilities of the lands now before us. In general they are well wooded, and filled with a somewhat rank and luxuriant vegetation. Lakes, streams, and rivers are in motion whichever way you look, though the sight of their dashing waters is often interrupted by the interposition of mountains and volcanic ridges. It is not, as a whole, considered favourable to health, and the general character of its vegetation rather points to the conclusion that it cannot be; but this admits of considerable amelioration, by a liberal clearing away of its forest growth. The population, which is black, mixed, and European Spanish, is not numerous, nor in any sense remarkable for intelligence or industry. Nevertheless, Honduras sends out its fine mahogany, Porto Rica its sugar and coffee, Nicaragua its indigo, cotton, and cocoa, San Salvador its indigo, ginger, and vanilla, and Guatemala its tobacco, cochineal, and pearls. There is a gathering in, therefore, more or less throughout the year, in each state of its characteristic harvest, and whether their labours are directed to this or that description of produce, the actual field work done in central America cannot be light, nor much below, if below at all, the ordinary proportion. But we have reason to believe that the most important part of the treasure of this district is lower down than the surface. The geological character of the whole area, no less than the prevalent traditions of the country, inevitably lead to the conclusion that gold, silver, and iron are largely deposited between its primary and its superficial strata. In proportion as the district becomes better known, and its resources are opened to the practical ingenuity of European minds, will the value of this new theatre command the attention and insure the activity of our men of wealth and enterprise. Perhaps the very greatest want of central America is a free and an industrious population, but it wants also a liberal introduction of the economical and practical arts; and when it shall form the beaten pathway of the commerce of the capacious and rising states of the south-west, as well as of the older and riper European communities, its resources will receive their full and perfect development. Among these, the production of its mineral riches will at least have a secondary place in the sumptuous catalogue of its wealth; but until industry and the arts may be counted among the settled virtues of central America it cannot aspire to the rank to which its geographical position and its physical endowments give it a just and an indisputable claim.

The cause Capt. W. H. VERRAN v. Mr. T. CAMPLIN, of London, occupied seven hours at the late County Court meeting, at Truro. The plaintiff was managing captain of East Wheel Fortune, in Bissoe, and sued defendant as an adventurer in that mine for 50*l.*, for salary, money expended for small supplies, and expenses to London on the mine being abandoned, to endeavour to get a settlement of his demand. Mr. CHILCOTT, for plaintiff, produced the cost-book, in which defendant's name appeared as an adventurer, signed as such in three places, also a letter from him to plaintiff in reference to the mine, calling plaintiff into the witness box to prove that the letter was in defendant's own handwriting, and that the mine had stopped in consequence of the failure of the purser in London, Mr. CARY, who was a large shareholder. On this occurring, plaintiff proceeded to town to see some of the adventurers, among whom he met CAMPLIN, the defendant, saw him write a cheque, and received from him his address where to call upon him next day. From these instances he was enabled to swear to defendant's handwriting on the cost-book, &c.; he had also written letters to, and received answers from him. The next witness was Mrs. CARRIS, of Cross-lanes, near Chacewater, who stated that in August last two persons called at her house, and asked the way to East Wheel Fortune, one of whom talked to her about the mine, and said he held "30 shares in it." On referring to the cost-book it was found that no shareholder at that period held such a number except Mr. T. CAMPLIN. Mrs. CARRIS swore that she conducted the parties to the dwelling of Mrs. FRANCIS, whose husband was an agent in the same mine. Mrs. FRANCIS immediately knew one of them to be Capt. PAUL RABY, of Wheal Soton, and heard him address the other as Mr. CAMPLIN. The cost-book proved the salary to be 6*l.* 6*s.* per month, and the other payments, which plaintiff swore to himself, thus making out his case. Mr. HOCKIN, for defendant, among a variety of objections, contended that the evidence was not sufficient to show that the Mr.

CAMPLIN sued was the one whose name appeared upon the cost-book, or that he was the individual holding an interest in East Wheel Fortune. His Honour thought otherwise, and gave judgment accordingly for 35*l.* 15*s.*, observing that he could not allow the plaintiff's expenses to London, that having been undertaken partly for his own benefit. Mr. CAMPLIN has now the power to sue his solvent co-partners for contribution: they can have no defence, and the law will compel them to contribute proportionately to the respective number of their shares.

In a short period the GOVERNMENT SCHOOL OF MINES, connected with the Museum of Practical Geology, will commence its career of usefulness. Such an institution has long been wanted, and we hail its formation, under the present able directorship of Sir H. DE LA BECHE, with feelings of unmingled satisfaction, and trust that it will fully attain the objects for which it has been created—that of giving a scientific education to the practical miner. Its sphere of utility we trust, from its working, will be so appreciated, that from the parent establishment branch seminaries will emanate, to be located in the several mining districts of the country.

That a governing institution should be formed in the metropolis is, no doubt, a wise policy, but it is singularly unfortunate that the counties round the capital are so destitute of those geological features that are indispensable to mining. The professors appointed are all men of celebrity in the scientific world, but we think a little practical blood infused in the body would have improved the system. The fee for two years is 30*l.*, or 20*l.* for each session; occasional students at an *ad valorem* charge; the laboratory to be open on payment of 15*l.* each session. The cheapest rate that the working miner can, therefore, obtain a scientific education is 45*l.*, not considering his expenses in the metropolis for five months annually. We apprehend that, at this high scale, there are but few of our practical men who are able to avail themselves of the advantages held out to them. Officers of the army and navy, either in the Queen's or East India Company's service are admitted to the lecture at half the usual charges. We are at a loss to conceive why this distinction should be drawn, as they, in our opinion, are the persons who are most able to pay. We have been acknowledged by all to be the best practical miners in the world; the works executed in England and abroad have excited the admiration of foreigners. Where Germans and others have failed, after using all the resources of science, Anglo-Saxon energy has prevailed. We shall in another article, more in detail, particularise the scale of charges at the continental schools, together with the system of education pursued there. In the meantime, we trust that our School of Mines in this enlightened age will have a view to utilitarianism, and not allow itself to be bound by the conventionalities and technicalities of science which fetter mining in Germany, and render its good effects in many instances nugatory for all practical purposes.

Having in the two preceding weeks given ample notices of the gold discovery in Australia, we have now only to record the receipt of nine days later intelligence, up to the 11th June, received by the Overland Mail, by which it appears Government has caused the following proclamation to be issued:—

As according to law all gold mines, and all gold in its beds, within the territory of New South Wales, whether in and upon the lands of the Queen, or upon the lands of private individuals, her Majesty's subjects, are and is the property of the Crown; and Government having received information that there is gold in and upon the territory of the county of Bathurst, and, therefore, within the Government or territory aforesaid, and that a number of persons have commenced searching, or intend to commence searching and digging for gold, on their own account, and for their own use, without having obtained permission from her Majesty, or from any other authority for that purpose. Therefore, I, Sir C. A. FITZROY, the aforesaid captain-general, do hereby make public known and declare on behalf of her Majesty that every person who shall take gold or metal from any property within the aforesaid territory, and any person finding gold in the uninhabited parts of the said territory which has not yet been disposed of, or ceded by the Crown, or shall search or dig for gold in and upon such territory, will be punished according to law. And I further publicly make known by this proclamation, and declare that upon the receipt of further information upon this matter, such regulations shall be made as may be considered just and expedient, and shall be published as soon as possible, whereby the conditions will be made known, on which by the payment of a reasonable sum, licenses shall be granted.

The opinion we have already expressed is confirmed—that the gold mania appears to be affecting all the industrial pursuits of the colony. People from all parts are flocking to Bathurst: upwards of 7000 being concentrated there already. Five vessels have been laid on at Melbourne to convey passengers to the "diggings," causing much alarm—fearing that the shepherds and stockmen may desert their charge, and thereby risk the loss of the flocks it is their duty to protect. This would prove ruinous to a vast number of industrious persons; and the men are not at all adapted, should they be rash enough to go. The work is heavy, and little suited to the taste of those who have been prowling about after sheep from their childhood; and if they knew the arduous task they would have to gain an uncertain livelihood, would never leave the quiet life they have been used to, to encounter the danger that in all shapes would beset them on such a venture. Having already given all the reliable news, we shall anxiously await the receipt of authenticated statements from our correspondent in the colony, of which we are in full expectation before our next Journal.

It appears that, at Bathurst, notwithstanding the diggings, labouring men may be hired there at 5*s.* per week and rations; as many, from want of sufficient provisions and other causes, fail at the diggings, and fall back on Bathurst for employment. In addition to the gold, some interest has been excited by the discovery of emery, which has been found abundantly by Mr. H. LOCKYER, of the estate of his father, Major LOCKYER, at Marulan.

A most disastrous flood has occurred at Adelaide—destroying not only the hopes of the agriculturalist, but for a time suspending operations at the Burra Burra and other mines.

In the *MINING JOURNAL* of 9th Nov. last we inserted an extract from a letter written by a party in South Australia to a friend in Cornwall, to the effect that colonial mining labour was exceedingly scarce, that no importation of miners would be too great, that they would find immediate and constant employment at good wages, and that from six to ten experienced mining captains would get immediate situations at from three to four guineas per week. Also, that if the names of some good men were sent to the writer he would send out means for a free passage. This letter certainly did at the moment appear to us to contain some contradictions and incongruities, incompatible with a knowledge of mining, either here or in the colonies. In the *Adelaide Observer* of 29th March last the subject is taken up by a Cornish miner there, under the signature of "Tre-Pol-Pen" (who appears to be an old correspondent of our own), in which he endeavours to show that the writer is no miner, but some interested party, either as agent or otherwise, who would gain by the introduction of miners, probably by the still further lowering of wages. He assures us the situation in the colony, as regards the miner, compared with other classes, is anything but satisfactory; the perhaps aged tributer is often degraded in his own idea by being placed at other employment, or taking from him his pitch and setting him to tut-work, the latter, which has been the cause in a great measure of the excellence of the Cornish miner, being to a great extent discontinued, and tutwork and scales of fixed wages have in most cases supplanted it. Attracted by invitations and representations such as those alluded to above, the mining population at present far outnumbers its necessities, and thus, in every conceivable occupation of colonial life, maritime, commercial, and agricultural, its members will be found working for a scale of remuneration scarcely adequate to decent subsistence. Notorious, he says, is the redundancy of the mining population, nor does any immediate improvement appear at all probable; abandonment, rather, seems to mark the mining history of the colony. The miners of Cornwall are cautioned not to be deceived; they have no business there just now; but when times have altered, when capital becomes commensurate with the importance of the field of operations, and designed for the development of the resources of the colony, rich, undoubtedly, in mineral wealth but yet unexplored; when legitimate mining shall have materially expanded the requirements of the labour market, always attainable, they are then told to cast their glance to the antipodes, and not to hesitate to hasten to the green fields of main-

chite and prosperity, in which they may participate. There is also in that letter an attack on the competency of the present agents in the colony, which is warmly replied to by "Tre-Pol-Fen," and we think the latter writer's remarks offer a tolerably correct view of the present condition of mine employment in the colony.

Another communication from the same writer appears in the *South Australian Register*, in which he admits while he has shown the excess of mining labour, that circumstance has no reference to the intrinsic mining merits or mineral riches of the colony, which are disseminated over its whole surface in indications as numerous as they are unmistakable. Yet, with the exception of the Barra Barra and two or three others, there is no spirit shown essential to success, nor can any real underground workings be said to exist. The cause of this is the want of capital; while independence and great wealth have been obtained there, unprecedented in any other countries, lands and flocks, agriculture and commerce, buildings and trade, all offer as certain and profitable investments, and more than absorb the capital the colony actually commands. Little, therefore, is left for mining, and that little is frequently misapplied. Besides, there is such a gross misconception on the part of colonial mine shareholders as to the nature of mining, that it defeats the chance of success. They imagine that they have but to obtain the land to realise, mushroom-like, without scarcely search or outlay, all the dividends of the Barra Barra.

MINING ENTERPRISE—ITS PROGRESS AND PROSPECTS.

Our last Journal disposed of all those mines that had, during the quarter ending with June, sold upwards of 3000. worth of copper ore at the public ticketings. We now arrive at those of lesser growth—viz., under that amount, the first of which is Pendarves Consols, 3402. 12s. for 86 tons, being only 37. 19s. 3d. per ton. This would appear to be about their average price; taking the sales for the whole twelve months, they disposed of 313 tons at 37. 19s. 6d., value 12397. 19s. 6d., so that the last quarter's amount is a trifle over the preceding three. The concern is still in its infancy, not having been three years at work; we are, however, at a loss to account for the depreciated value of the ore this, compared with the last working, for at the ticketing held at Redruth on the 10th of July, 1777, Wheal Cherry and Roskear (part of the ground) yielded ore that then realised 74. 15s., 124. 4s. 6d., and 141. 5s. per ton. We should judge that the present workings are at a deeper level than formerly, but we have not the facts to refer to, unfortunately, this being one of the mines standing upon our list without any reports or statements—in fact, we doubt the price quoted (37. 10s. per share paid up) being the actual amount paid; therefore shall be ready to insert such particulars as we may be favoured with.

Wheal Ellen (formerly part of the celebrated and rich Wheal Music), in St. Agnes and Illogan, adjoining the Tywarthayle Mines on the south, and like them not working to any profit, was commenced working about 35 years ago by the late John and Matthew Moyle, Esqrs., whose agent, Capt. Oates, of Rose-in-Vale, was the manager. By means of water-power they realised very considerable profit, and in a very short period of time. The ore was mostly in small branches, malleable, and exceedingly rich, but so numerous and minute were they that some were found not worthy of following. The idea then entered the head of Capt. Oates that it would pay well to open-cut from surface, which he accordingly carried into practice, employing every mule and donkey in St. Agnes, and, as an old acquaintance of his used to say, "he turned the world upside down," for he made a deep pit, called by the miners "The Devil's Punch-bowl." It was found, however, too expensive; the ore strings that were left would not pay, after all the best deposit had been taken away: it was, therefore, shut up; when Mr. Humphrey Williams, the present M.P. for Truro (part lord of the soil), with a large party of gentlemen from thence, joined the late Capt. Thomas Teague in putting up a 70-inch cylinder steam-engine, to give the entire set, south, west, and east, an effectual trial. This also proved unsuccessful; the engine was sold and removed after a very considerable loss, and then they commenced making profits, which continued till about a year back. The yearly returns, from 30th June, 1847, were—

Copper ore.	Amount.	Av. per ton.
1848	650	£4238 13 0
1849	564	3256 6 6
1850	322	1868 17 0
1851	432	2677 14 0

The quality is rather improved; but the quantity is falling short again. Hingston Downs is decidedly an improving mine, during the last quarter selling 27 tons of copper ore for 2437. 9s. 9d. per ton; this month they will sample 80 tons of it. The mine is 55 fms. deep, that level being only extended from 6 to 7 fms., the lode, which is 10 ft. wide, yielding on an average 6 tons of copper ore per fm.; the eastern end turning out about 8 tons, and is driving at a tribute of 4s. in 17. This must be a fine course of ore, and when extended far enough to leave ground for stoping, the returns cannot fail being considerably augmented.

St. Aubyn and Grylls, in 1024 shares, 37. per share paid up. Though we are informed calls have been made that we are not aware of, this is one of those mines from which we receive no sort of intelligence, except now and then, when a meeting is held and a call made. The number of shares prevents it being considered a private undertaking, and as they are quoted upon our list, we think the shareholders residing at a distance from the mine are entitled, through our means, to learn monthly what the prospects are. The copper ore sold in the last quarter was 38 tons, value 2221. 14s., average 57. 17s. 3d. per ton. Since which 19 tons have realised 1227. 11s., average, 64. 9s.—proving the ore to be of good quality.

Gonamen Copper Mine, St. Cleer, has expended about 13,0001., and is 104 fms. below the adit on Dunstan's lode, shortly expecting to cut Gilpin's. The copper ore sold during the last quarter was 30 tons at 71. 4s. = 2161. They have now 50 tons ready, worth about 71. per ton, showing a very evident improvement. We wish them every success. Hawk's Point Copper Mine, in Uny Lelant, upon an outlay of 45001., for the 12 months ending with June, sold 89 tons of copper ore, at 37. 8s. per ton = 3037. 7s. 6d.—one-half of which was in the last quarter, and on the 7th of August 47 tons, at 37. 5s.—1227. 16s., showing a considerable increase of produce in the last half-year, though much of the same low average quality. This is all the particulars we can collect for the last four months; and as doubtless they have in that period held an account-day meeting, we shall be ready to insert the same when favoured therewith, and hope to learn they have met with a more remunerative lode, yielding ore of higher price, which would certainly be an inducement for them to prosecute the mine to a deeper level than it has hitherto been wrought at.

West Alfred Consols started within the last two years, and have called 81. 10s. each on 1024 shares, to give the concern an effectual trial in depth—the local situation being sufficient recommendation to the spirited individuals who undertook it. Parties, however, were soon found ready to give any premium that was demanded, fully expecting to see the shares upon an equality with their rich neighbour—the Great Wheal Alfred. The consequence of which was, when only 51. per share had been paid, they were eagerly caught up at 121. 10s. in Dec. last; in March they were 251. In May, 71. 10s. paid, they were 201., with considerable demand for them. In June, 1847, July, 177. August lowered them to about 151., and they are now quoted 131. to 141. each. The only sales of copper ore have been 37 tons, at 41. 3s. = 1537. 11s., to the end of June; and on the 11th inst., 53 at 37. 13s. = 1994. 9s. The ore is of low quality, less than half the value per ton of their rich neighbour. They must have time to explore deeper. More money and perseverance will be necessary before any great produce ought reasonably to be expected. Give the mine fair play, and we doubt not the result will answer expectation.

Bodmin Wheal Mary went to work about six years ago, and has expended between 80001. and 90001. There are nine distinct lodes in the set, all underlying north. The engine-shaft is well placed for effectually trying most of them in depth, seven of them being south of the engine-shaft, which is down to a 30 fm. level. The stratum is exceedingly favourable for copper ore—a beautiful white killas, near soft elvan courses, 3 to 4 fms. wide, underlying south. Several of the lodes will intersect each other at deeper levels. One of them is a caunter, passing through all the lodes in the western part of the set. The machinery is in good working order, and a cross-cut driven south, to intersect several lodes of promise. No. 6 has just been cut in the 10 and 30 fathom levels, being 4 ft. wide—peach, spar, and yellow ore disseminated throughout, all fit for the dressing floors. Levels east and west are just commenced, and the shaft set to sink with all possible speed. In the 10 lode consists mostly of gossan, with small portions of grey and black copper ore—such a lode as we have often heard old miners in the west say they "would venture the shirt off their back" for. Had half the time and money been expended in sinking the shaft down, instead of trifling with the levels and cross-cuts above at such shallow depths, by this time the mine would have been opened to the

100 fm. level, and most of the lodes seen and proved. According to expectations formed by parties competent to judge, the probability is they would now be sharing dividends, instead of having the work upon their hands still to perform. Great perseverance is needed in this flattering spot, where every indication is good, and such as the most talented miner cannot find a fault with. Had it been in the Tavistock district, at this moment shares would be "cooked up" to five times the present market value, and more working of shares than levels be the consequence. For the last year, ending June, they sold 88 tons of copper ore, at 37. 10s. 6d. = 3107., one-half of which was during the last quarter; and on the 7th August they sold 30 tons, at 37. 18s. = 1177., showing an improved quality as well as quantity; but the one thing needful is perseverance in depth, and the sooner there the less expense it will be to all concerned. They have played the shallow level game long enough, and to their cost.

[To be continued in next week's Mining Journal.]

IRON AND COALMASTERS' PRIZES.

We are glad to announce that an association has been formed among the iron and coalmasters of South Staffordshire, for the establishment of annual prizes in the National Schools connected with the mining population; and that the following regulations have been adopted, subject to such amendment as further experience may suggest:—

The examinations will be conducted by the Rev. J. P. Norris, her Majesty's Inspector of Schools, in the months of February and March each year, at the same time and in the same manner as the examinations for pupil-teacherships.

Candidates are to be boys of not less than eleven years of age,—with a preference to such as may be older.

They must have been at least two years in attendance at their respective schools. These schools must be under Government inspection.

Those who may have already obtained pupil-teacherships will not be admitted as competitors.

The minimum standard of attainment will be—Reading fluently from the first-class reading-book; writing correctly from dictation from ditto: the first four rules of arithmetic, simple and compound; general conduct and progress in religious knowledge being also ascertained to be satisfactory.

The examination for the first prize will extend to the higher rules of arithmetic and mensuration, and include a short essay on some subject connected with the geography or trade of the district.

The number of prizes allowed in each school will depend on the size and character of the school, and also on the number of candidates presented for examination. A tolerably good school of 100 boys may hope to obtain one prize of 41., one of 31., and an additional sum of 11. to be divided or given in books, at the discretion of her Majesty's inspector.

If any school should fail to produce candidates of the minimum standard of attainment, the inspector may transfer the amount of prize-money which might have been gained by that school to any other school furnishing more than its proportion of qualified candidates.

A list of schools, from which candidates will be admissible, is being prepared by H. Seymour Tremeneere, Esq. (who originated the scheme), the Rev. J. P. Norris, and Walter Williams, Jun., Esq. (the hon. secretary of the association), who will communicate with the managers of the several schools respecting the time and place of examination.

IMPROVEMENTS IN IRON MANUFACTURE.

We have received the following statement, which shows the successful working of Mr. Plant's process of puddling iron,—notices of which have repeatedly appeared in our Journal:—

WEEK ENDING 23RD AUGUST, 1851.					
Puddled Bars produced.			Coal used per ton of bar-iron.		
Tons.	cwt.	qrs.	Tons.	cwt.	qrs.
No. 1 furnace, working with Mr. Plant's patent	22	0	3	11	4
No. 9 furnace, worked by the ordinary mode	14	4	0	11	5

Both No. 1 and No. 9 furnaces were boiling pig-iron of the same description; the yield of iron at both furnaces was about the same, but the quality of puddled bar produced from No. 1 furnace was rather superior to that from No. 9. Last week's work is a fair average.—CHARLES J. HAMPTON, Manager: *Llynvi Iron-Works, Glamorganshire, Aug. 25.*

WETTERSTEDT'S PATENT METAL.

This metal having (as the readers of the *Mining Journal* will have observed) been for some time added to our "Price Current," many inquiries have consequently been made respecting it, and we have, therefore, pleasure in giving insertion to the following descriptive statement, which we have received from the manufacturers:—

The combination of this metal is peculiar, giving it the properties of great tenacity, malleability, elasticity, and durability, also preventing corrosion or decomposition. It is unaffected by changes of temperature, and is, therefore, not liable to pucker or crack from the effects of exposure to the heat of the sun. Its lightness and malleability cause it to be particularly adapted for roofing purposes. It is used only 1½ lbs. to 2 lbs. and 3 lbs. per foot superficial, rendering much less expensive framing necessary to support it than either lead, slates, or tiles, and its malleable qualities admit of its being easily wrought into any form which the angles of a roof may require; and if the edges are carefully lapped together, the covering will be perfectly water tight without solder, which, however, may be applied as an additional security, if thought desirable. It is peculiarly suited to circular roofs, domes, cupolas, verandas, flats, &c. Also as a substitute for lead, for listings, and a variety of other purposes in ship building. It is made in sheets from 8 ft. to 9 ft. long, by 2 ft. 6 in. to 3 ft. wide, and 1½ lbs. to 3 lbs. per ft. superficial. Many large public and private buildings might be mentioned to which the metal has been successfully applied—viz., Polytechnic Institution, London, Athenæum, Manchester, several railway stations on the North-Western and other lines, &c. A large flat was laid upon a gentleman's house about 17 years ago, and the manufacturers have the assurance of the party who laid it, and has since had it under his superintendence, that it has never yet required repair.

The Ivy Tor Mine case was concluded at the Plymouth County Court, on Tuesday, when Mr. Praed gave judgment for the plaintiffs.—His Honour said the defendant was an adventurer, and responsible for the amount due. The first answer given by the defendant was that the money had been paid; that certainly failed. It was then contended that a release had been given himself and brother-adventurers; and also that an action had been brought without the consent of all the parties concerned. The principal object of defendant appeared to be to throw discredit on the agents of the adventurers, who were authorised by them to give orders—that the work was not done according to contract, and that, therefore, the money ought not to be paid. But it did appear clearly that the work had been done, and the money ought to have been paid. Under all the circumstances, therefore, he considered the judgment ought to be for the plaintiffs for the whole amount.

DISPUTED QUESTION AS TO RATING STONE DELLS.—At the Moot Hall, Wigan, the Biplam Delf Company were summoned by the overseers of Billinge Higher End for the amount of rates laid in that township. Mr. Ackerley appeared to support the summons, and Mr. Mayhew appeared for the defendants. Mr. Ackerley stated that on looking minutely into the law of the matter, he found that delts which were worked as mines were not rateable. Mr. Mayhew and he had, therefore, arranged that the defendants should pay only one-half of the rate; and that with respect to the other rate, which upon the face of it appeared to be levied upon the steam-engine merely, without reference to the working of the engine, but against which the defendants were too late to appeal, one-half of that also should be paid.—Mr. Mayhew stated that he considered it a fair arrangement. It was decided that each party should pay their own costs.—Mr. Ackerley said that there had been great doubt as to delts worked as mines being rateable; and as it was unfair to the ratepayers of the townships in which those delts were situated, that they should not contribute their proportion to the rates, he might state that he believed the farmers and other ratepayers, in those townships, were about to take such steps as would lead to an alteration in the law.

CAMBORNE AND ILOGAN MINING DISTRICT MAP.—Desirous at all times of extending our aid to the encouragement of every labourer in the mining field, we have purchased a copy of the map of this most important district, lately published by Mr. R. Symons, of Truro. We think that a map of this kind, as a document for reference, is calculated to be of much service to all parties interested in any way in the district it represents—particularly landowners, adventurers, mine agents, and brokers; because it furnishes an amount of valuable information as to lodes, sets, &c., which could not be so well communicated through any other medium. There are about 50 sets comprised in this map, each distinctly coloured. The lodes wrought are represented by solid red lines, and those unwrought are shown by broken red lines. The cross-courses ascertained are shown by solid green lines, and those whose courses are only supposed, by a broken green line. The adits are marked blue, and the elvan courses brown. The boundary of the granite and of the clay-slate is also shown; the former by a red, and the latter by a purple tint. Every close, house, road, and stream appear in the map, within the extent of country embraced, which extends from Redruth town, on the east, to Praze, in the parish of Crowan, on the west. The map is neatly executed in lithography. We hope that an extensive sale of copies will be the reward of the author, which we think he richly merits for the labour and expense involved in the performance.

Original Correspondence.

CALLOW'S BLASTING POWDER.

SIR,—A temporary absence from home has prevented me from offering you at an earlier period the following remarks on this subject; but I now propose to send you one or two communications—differing, I regret to say, widely in spirit from those of nearly all of your correspondents, and I may add the favourable opinion you naturally enough begin to entertain on the merits and pretensions of this blasting powder yourself. I think it, however, a necessary preliminary to my observations to take a short retrospective glance at its progress through your columns, in order that your readers may arrive at a clearer apprehension of the qualities of the powder, its nature, composition, and effect, and that they at the same time may better understand the line of argument I shall adopt regarding it. I may also state here that, in any observations I have to make on this subject, I am actuated by no narrow and contemptible spirit of opposition to Mr. Callow. I am perfectly open—nay, will be glad to be convinced of my error; and, indeed, my object in writing on the subject at all is for the simple purpose of eliciting truth.

The first notice you give of Callow's blasting powder is contained in a report of Lord Ranelagh's experiments, in the *Mining Journal* of July 5th. On the 12th you refer to the subject in a remarkably judicious article, and publish at the same time the three specified combinations which constitute the basis of the patent right claimed by Messrs. Melville and Callow.

These combinations (which, however, it is expressly stated the patentees do not confine themselves to) I may as well repeat:—

- No. 1. Chlorate of potash, 2 parts; sulphuret of arsenic, 1 part.
- No. 2. Chlorate of potash, 5 parts; prussiate of potash, 1 part; sulphuret of arsenic, 2 parts.
- No. 3. Chlorate of potash, 1 part; prussiate of potash, 1 part.

You then proceed to draw the attention of chemists to the subject; disclaim all intention of impeaching the sincerity of the patentees in their assurance of the excellence of their powder; comment on the poisonous nature of some of the ingredients, and finally invite a careful and dispassionate discussion in your columns of the whole question.

In accordance with this invitation we find (July 26) two letters on the subject. One from "A Pyrotechnist," who finds powder No. 1 "exceedingly dangerous and susceptible;" No. 2, "caeteris paribus, as safe as gunpowder," who begins his communication with describing his experiments on the same powder; and concludes by expressing a desire to know where it—that is, "the actual composition submitted to the public"—is to be purchased. Following this communication comes another from "J. A. B.," who writes under a sense of modesty in the highest degree commendable; repudiates anything like an extensive knowledge of chemistry, yet seems to understand the "hygrometric nature of certain saline solutions." Next comes the startling and painful announcement that Mr. Callow has had the misfortune to mutilate his hand by an accidental explosion to an extent involving amputation above the joints of the forefinger and thumb of one hand. I shall return to this. On the 2d August, Mr. Callow writes a letter to the effect that he had placed samples of his patent powder "in the hands of an eminent practical chemist for careful examination;" that his powders, Nos. 1 and 3, were not generally used, and were merely inserted in the specification for special purposes, and to conform with certain legal points. At length we arrive (Aug. 16th) at the report on the powder No. 2, by Mr. Dugald Campbell. As the consideration of this report properly belongs to the scientific part of the controversy, and since I intend noticing it on another occasion, I shall not in the meantime stay to examine it. I will, however, remark that Mr. Campbell, with the reserve which should invariably distinguish a great experimentalist, very properly observes:—"That his experiments were tried on a very small scale, as all laboratory experiments necessarily must be, and that this circumstance might render it advisable to extend the investigation beyond his sphere;" and so on. Following the report is the concluding observations of the "Pyrotechnist," who in his turn expresses a desire to see or hear of some physical experiments—that is to say, the amount of percussion, friction, abrasion, &c., that this powder will sustain.

On the 23d comes some one from Ealmouth, under the initials of "G. C.," who puts a new physical question on the subject, and desires to be informed whether the practice of a certain mode of manipulation would not incite an explosive tendency in the charge. This individual is answered a week after by Mr. Callow, who finds out the true motives for asking the question ("G. C." is another powder manufacturer), takes up high grounds, demonstrates the impossibility of putting a one-inch cartridge down a half-inch hole, refers to the analysis, or report, as to the innocuous nature of the gases generated by the explosion; and states once for all "that it was not without due consideration of all these points, and elaborate experiments on every possible contingent risk and objection, that he undertook the responsibility of recommending this patent mining powder to the public."

Such, I believe, will be found to be an accurate, although condensed, résumé of the rise and progress of Callow's patent blasting powder as exhibited in the columns of the *Mining Journal*. Your own article of the 30th August, generously acknowledging that it had passed through the ordeal of public opinion unscathed, has, of course, only reference to the extent of the investigation. I must admit that I admire the spirit of thus publicly discussing the qualifications of an important invention, such as this professes to be; and I shall now briefly indicate the part I wish to take in the discussion; and I repeat that this will contain a conscientious expression of my own opinions, and that alone.

I purpose in the first instance, in the present communication, to question, if not deny all right of Mr. Callow to a patent, and in a subsequent one to comment on the chemical composition of the powder, the report on its merits by Mr. Campbell, and the letters of "A Pyrotechnist;" and although I may again take occasion to notice Mr. Callow's specification at greater length, I shall confine myself here to his powder No. 2; especially as the 1st and 3d compositions seem to have turned out, for all practical or commercial purposes, useless and ineffective.

In order that the validity of a patent may be maintained, it seems to be indispensable that the invention should, at least in some point, possess the merit of originality. The chlorate of potash, as an explosive agent, has long been known to chemists; and, indeed, since I can recollect, has been the favourite illustrative combustible in chemical schools. Mr. Callow admits this in his specification, and, consequently, can have no pretensions to a patent right in the use of this ingredient, and yet 5 parts out of 8 in his best mixture is composed of it. The application to this purpose of the next ingredient—the prussiate of potash—I apprehend is neither new nor original. I have not the copy of your *Journal* of the 16th March, 1850, where you extract from the *Swansea Herald* the numerous explosive admixtures formed with the chlorate of potash, and cannot, therefore, speak of these; but I can point to another publication, the *Chemical Gazette*, vol. 8, p. 198, where, under the head of "Chemistry applied to Arts and Manufactures," I find the following extract from *Julie Franch's Journal, Comptes Rendus*:—

ON A NEW KIND OF GUNPOWDER: BY M. AGENDRE.—According to numerous experiments which the author has made, in order to prepare a gunpowder from the yellow prussiate of potash, the following proportions appear to be the most favourable for obtaining the greatest effect with the least residue:—Powdered crystallised yellow prussiate of potash, 1 part; white sugar, 1 part; chlorate of potash, 2 parts. The constituents are reduced to powder separately, and then mixed with the hand. In preparing large quantities the mixture is moistened with 2 or 3 per cent. of water, and pounded in a bronze mortar with a wooden pestle. This powder is white; it is fired with the greatest ease. It must be exceedingly dry for a violent blow of iron to explode it; friction between two polished bodies never produces this effect, nor does a blow of wood upon wood, or metal upon metal. This powder has the following advantages:—It is formed of determinate compositions, is unalterable by the action of dry or moist air, takes less time in its manufacture, has greater force than the ordinary gunpowder; but it has the disadvantage of oxidising iron barrels very much, so that its use is limited to bronze barrels and for filling hollow projectiles.—(Query, or blasting?)

Like Mr. Callow, the author describes an accident which occurred to him. On triturating a few granules of ordinary gunpowder, together with a quantity of the prussiate powder, on the second or third turn of the pestle the whole mass exploded, with a noise like the report of a cannon. The mortar remained entire, but the author lost eyebrows and eyelashes, and remained for two days uncertain whether he should not lose his sight, as his eyes were unable to support the light.

I think we have sufficient grounds here for denying Mr. Callow's right to the second ingredient—the prussiate of potash; and were the considerations of time and research with me of minor importance, I think it would not be difficult to produce plenty of analogous compositions from the writings of continental chemists. There, it would seem, when a discovery is made likely to prove serviceable, perhaps, in preventing accidents or saving life, it is freely given to the world. In England, on the contrary, the highest thought, the noblest impulse, the benevolence, so as to speak, of certain kinds of chemical discovery, is to shroud itself in the mystic parchments of the Petty Bag-office. The very word "patent" seems to

possess a secret charm, and the impress of Britannia's great seal bestows alike a lustrous decoration on an oscillating cylinder or a bisulphite—on an explosive agent of tremendous power, or a vegetable pill!

I am not prepared to say that the third ingredient—the sulphuret of arsenic—is not entitled to the questionable merit of originality; but I leave the consideration of it to my next letter, with the suggestion, in the meantime, that M. Augendre's second ingredient of white sugar seems to me, *a priori*, to be less calculated to produce poisonous gases on explosion, or a compound so likely to be exploded by friction. To this ingredient, however, the powder is indebted for its red colour, and it remains to be seen the particular advantage resulting from this—its most prominent characteristics.

To conclude, I think it exceedingly apparent that the grounds on which Mr. Callow's patent is based, are indeed slender. With the exception, perhaps, of the red ornament, I have controverted his right to either of the rest. He does not, it is true, confine himself to specific combinations, but we all know well enough the fallacy of loose specifications—their tendency to mislead, and, after all, their intrinsic worthlessness. I would have little hesitation, if I were a manufacturer (which I am not), of getting up a blasting powder closely analogous, and, at the same time, probably superior to Mr. Callow's, without much regard to his patent right; and were I a patent agent (which I am not), and applied to for a straightforward disinterested opinion on the matter, I would tell that gentleman to take his stand on his cartridges, his mode of manufacture, his machinery—anything—everything, but the composition of his powder.

Edinburgh, Sept. 9.

CALLOW'S NEW BLASTING POWDER.

SIR,—Mr. Callow, in his letter, taxes me with being apparently angry in my remarks; I beg to assure him that I had not the shadow of an intention to be offensive, although I certainly now think he gave some slight grounds for such, in attacking my safety cartridges without knowing their properties. Put this aside, I am both open and willing to render every assistance in my humble power to benefit the miner and quarryman, and to protect both from the lamentable accidents that daily occur in the use of combustible matter. It is binding on us all to secure our fellow-creatures from such catastrophes, and I know of no reason why Mr. Callow will not co-operate; and if he finds, by further proof, that his powder is dangerous, no doubt he will throw it overboard, without considering pecuniary benefits. If his powder will really be beneficial, it ought also to be binding on the part of the mine authorities to countenance it, both for the sake of the working man and the adventurer; lessening the labour of the one, without decreasing his hard-earned wages, and saving cost to the other.

I have asked certain questions, which are not satisfactorily answered; therefore, further discussion will be useless till a final result is arrived at.

Referring to your own article, relative to the form of the bore, in point I fully agree, but it is well known any alteration or improvement is looked upon by the old school as an innovation on the customs of their "dads," and is designated a "new fangle." The size of the borer is seldom or never altered; but the size of the cartridge, or old fashioned bag, must be made to suit the bit, not the bit to the cartridge or bag. Induce people to alter their opinions (no small task), then advantages will tell in every shape to meet what should be the customs of 1851.

Diverging, I may be permitted to mention, there is a prevalent opinion that cartridges are not so effective as loose powder, and that the tighter powder is packed to the bottom of a hole the greater its force; this is a sad error, there being no room for expansion, and a third of the powder being thrown out without igniting; this is clearly proved by the unignited grains being forced into the hands and faces of those who have been so unfortunate as to meet with a premature explosion.

Serious accidents and disastrous loss of life have been experienced by fragments of stone being cast into the air in open blasting, as happened, for instance, a short time back at Holyhead. To guard against this, perhaps it may be worth the attention of Mr. Callow.

Pendennis, Falmouth, Sept. 14.

GEORGE A. COPELAND.

FURNACE VENTILATION IN COAL MINES, AND THE HIGH-PRESSURE STEAM-JET.

SIR,—In your editorial remarks of last week, on the question of ventilation, you have quoted largely from Mr. E. Cayley and Prof. Hann, in favour of the high-pressure steam-jet. Admitting the theory of the natural brattice formed by furnace ventilation, and the fact of the increased resistance by the speed in the upcast shaft, up to a force equal to the force of buoyancy, in what way does the high-pressure steam-jet overcome these two physical impediments in the way of a perfect ventilating agent?

Sept. 9.

A CONSTANT READER.

THE UNIVERSAL CONDENSING ENGINE.

SIR,—After the manner you have again seen fit to review my inventions, and to point attention to the real obstructions which have for so long a time prevented the public deriving from them those advantages which they are calculated to confer; and from the fair spirit of investigation manifested by Mr. David Mushet, and your other correspondents, I am encouraged even yet to hope that England does possess men who can and will vindicate the national character, by showing that the exclusive possession of the knowledge requisite to a right understanding and discriminating judgment as to the practical worth of mine or any other good invention is not confined to a body of men whose interests, combining with other feelings, render them most unfit persons to sit in judgment upon matters that so much affect the pecuniary interests and the general welfare of mankind. As you have justly remarked, the position and interests of men so situated present the strongest temptations it is possible to conceive to lead them to disregard the public good, in order to retain their own interest and reputation, and, consequently, to throw every possible obstacle in the way of all really comprehensive and good inventions, which have for their object the improvement of the steam-engine.

Animated by the hope that I do now discern symptoms that Englishmen will in this, as in other matters, assert and exercise the right of judging for themselves, I am thereby encouraged, and intend to set before your readers as soon as I possibly can, a brief outline—1. Of the principles upon which my improvements are based.—2. The means by which these principles are reduced to practice.—3. The efficiency, durability, and simplicity of the means invented and practically carried out, by which these ends are accomplished.—4. The importance and value of the results which experiment and practice have already placed beyond the doubt of any rational man who is open to conviction.—5. The advantages which, by an extended adoption, will as certainly result from these inventions as that two and two makes four. My inclination, no less than the demands upon your space, will determine me to compress my remarks into as small a compass as possible; but I must defer until next week entering upon the outline suggested, and shall conclude these remarks by observing that among the principles upon which these inventions are based, the most important is the expansive property of steam, as it is from it that the steam-engine derives its motive-power. Yet, strange to say, there are even at this day men who treat all attempts at gain in this way as the mere visions of what they call theory; such men seem not to be aware that the only cause of the power they obtain by their crude and extravagant mode of full pressure throughout the stroke arises from the very expansive property they deride. Another class, and they are now the most numerous and the best informed, and also of the most extensive practice, recognise the importance of using steam expansively; but they wish those who require steam-engines to believe that in their best engines the principle has attained its full development, its safest, simplest, and most compact form. These representations are natural, considering from whom they come; but, after all, the American who because his countrymen have cultivated some of the most accessible districts, should therefore conclude that they have fully developed the resources of the American continent, would be as near the truth as are those who assert that our present marine practice, for instance, has fully developed, or exhausted the resources of steam, as a motive power for marine or any other purpose.

It has, therefore, been to render safe, practical, and universally available to the fullest extent, this expansive property of steam, that all my labours have been directed, and to accomplish which all my inventions are intended; and sure I am that whenever the competent and the impartial will take upon themselves to investigate the means produced, they will agree with me that I have been thoroughly successful; and Mr. David Mushet and others will find that, whilst my boiler possesses the recommendation of being an improved and more economical appliance for the mere generation of the steam, he and every other impartial person will find also that it has higher recommendations than can possibly be derived from such a source, in its adaptation for generating steam of great pressure with safety; as it is in the obtaining steam safely under high-pressure, and in all cases

working such expansively, and exhausting it into a vacuum, that the great saving is to be effected, as for every 1 per cent. which can be effected in the mere generation of the steam, 10 per cent. can be effected by using it as indicated above. Hence, all I have said, written, or done, has been mainly directed to this point, but in attaining it, generative economy, compactness, lightness, large extent of heating surface, slow rate of combustion, and the enveloping all the hot parts of the boiler by the hot gases before they pass off to the chimney, so that no loss of heat is permitted, are among the practical additional advantages gained by the boiler.

Ranelagh Works, Thames Bank, Sept. 10.

THOMAS CRADDOCK.

INDIA-RUBBER TYRES FOR DRIVING WHEELS OF LOCOMOTIVES.

SIR,—The question of the employment of India-rubber tyres on the wheels of railway carriages, but more especially on the driving wheels of locomotives, as a means of increasing their efficiency, and reducing the cost of maintenance of the carriages and permanent way, appears to me to be one well worthy the consideration of railway directors. From experiments I have made, I find that the adhesion or "grip" of India-rubber tyres on iron rails, when dry, is about double, and when wet treble that of iron tyres; on wooden rails it is still more. The traction, however, of the carriages is somewhat increased. At a speed of about 10 miles an hour the increase was about one-third. Whether it would be more or less at a higher speed I had not the means of determining. I, however, am inclined to think that, by the use of India-rubber tyres on the wheels of railway carriages their weight might be so reduced as to make the traction but little, if anything, more than it is at present. The springs and buffing apparatus, it appears to me, might with advantage be altogether dispensed with, the carriages made much lighter, and in lieu of being placed 3 or 4 ft. apart, coupled close or nearly close together, in such a manner as that the train should become, as it were, one continuous flexible carriage, incapable of that disagreeable and highly destructive oscillation which at present exists, and which, in addition to the damage it occasions to the carriages and railway, materially augments the traction of the train. I, therefore, conclude that, by the adoption of some such arrangement as that I have suggested, the traction of a railway train with India-rubber tyres would be no greater than at present.

If, then, as I think there is reason to believe, the traction of the trains would not be increased by the adoption of India-rubber tyres on the wheels of the carriages; and, having proved by actual experiment, that by its use on the driving wheels of locomotives the grip or adhesion would be trebled (for it may always be kept wet), it appears to me that the advantages to be secured by its use are very great. The cost of repairs of the railway and train, and likewise the locomotive engine, there cannot be a doubt would be very materially reduced, the rails would hardly be worn, except on the sides, by the flanges of the wheels, blows or violent shocks from the inequality of the rails could not occur, as the elasticity of the tyres would ensure their constant close contact with the rails, the difficulty of ascending inclines, from the insufficient grip of the driving-wheels, would be entirely avoided, and the efficiency of the locomotive being increased, the liability to accident from collisions, &c., would be thereby proportionately diminished; while, from the entire absence of the present intolerable noise of the iron wheels, and the oscillation of the carriages, the comfort of railway travelling would be so increased, as that instead of being, as it now is, a disagreeable necessity, would become a pleasure, and be resorted to as a luxury by thousands who at present seldom or ever get into a railway carriage.—W. J.: September 17.

P.S. What has been said in regard to the increased adhesion or grip of India-rubber over iron tyres on railway locomotives, it appears to me will equally apply to common road locomotives, in which case the traction of the carriages would not be increased.

ARE WE TO HAVE A SUBSTANTIAL TELEGRAPHIC LINE BETWEEN ENGLAND AND FRANCE?

SIR,—Perhaps some of your numerous readers, or, at all events, some of the shareholders, would like to know something more than that there is to be laid down forthwith a telegraphic line between England and France.

Right glad should I be, as one of the people, to rise some fine or stormy morning, and hear of the complete success of the undertaking—that the Frenchmen, on a visit here to the World's Fair, are about to exchange salutes with their neighbours in Paris through that gossamer thread laid across the highway of fishes. But such I am afraid is not to be the case, after the vast outlay which is now being incurred. Your readers will probably recollect the first experimental trial, the success of which lasted but a few moments—four words only being passed by the electric current. What those words were I do not think any of the shareholders had them sufficiently impressed on their imagination (memory, perhaps, I ought to say) to recollect the same ever having existed to the sight. In this experiment one single wire was used, coated with gutta percha, and the cost was 16,000*l.*, being at the rate of 400*l.* per word. Now we are to have a second experimental line laid down, and that at an enormous cost—I say enormous, because it will cost more than a permanently secure line. Why not do the thing properly?—means exist, and the engineers that could carry a Britannia bridge across the straits of Menai could lay a substantial telegraphic line across from England to France. There is now being made in the neighbourhood of Wapping this precious experimental line, with the stability and expense of which I find fault. In the first place, there is an outer coating of iron wire, at a cost of 66*l.* per ton, of which there will be required about 180 tons; then comes the gutta percha covered wires at 25*l.* per mile, of which there will be required 100 miles, as there is to be four wires of 25 miles each; and added to this is a coating of hemp, tar, grease, &c., together with the labour of 50 men, now at work upon the same day and night. The breaking strain of this material, when finished, will be from 6 to 8 tons only, and its weight per mile 6 tons. This fabric is making all in one length, about 25 miles. How it is to be coiled up for the purpose of transit I cannot conceive; and when once it is got safely on ship board, and a few miles of the same paid out, as the sailors term it, I predict that the outer coating of wires will stretch greater in proportion to the copper conducting wires inside, which is only bell-wire. The consequence will be that the said inside wires will snap off. I have had the same thing occur during my operations on the North-Western Railway, and also on the Great Southern and Western Railway in Ireland. In this form of electric conductors such accidents are not at all times to be guarded against, the more especially when they are subject to the jerks and tugs of a ship at sea, which will certainly lead to the complete failure of a second experimental line between England and France, at a cost of something like 16,000*l.* for materials.

Now, let us compare this to the cost of a substantial line which can be made and easily laid down—not in accordance with any plan of mine, as I have not a patent for electric conductors; neither am I interested in one, but one I have seen. Mr. R. Stephenson has seen it, as also Mr. Edwin Clarke—the talented engineer of the Electric Telegraph Company, and numerous other individuals of high scientific attainments. They all pronounce highly in its favour, and that the certain success of such a line, if laid down, is placed beyond a doubt—I allude to Messrs. Shepherd and But-ton's beautiful invention, which the originators of the submarine telegraph could have availed themselves of, if they had felt disposed so to do, and applied the capital to be laid out upon the experimental line towards paying for the more substantial mode; which consists of an ordinary ship's iron chain cable. In each of the four angles, which is formed by the links, an insulated copper wire is secured by clips, which wires may be coated with gutta percha; on the top of which the inventors lay a coating of some peculiar substance, which prevents the destruction of the gutta percha by those tiny marine creatures, the *teredo navalis*; and to prevent any chafing of the same against the links of the chain, wires are twisted around it.

Now, it must be obvious to any person who understands the construction of this conductor, that all the strain is taken wholly by the iron cable, leaving at all times the perfect freedom of the conductors. The breaking strain of a cable suitable for the purpose is 20 tons, and weight, per mile 10 tons. The same can be laid down in short lengths, there being arrangements at every mile for testing boxes, discoverable by buoys, held in connexion with chains, so that any repairs could be effected with ease in the midst of the ocean. This very complete conductor would cost, in the first place, 12*l.* 10*s.* per ton for the chain cable (of which there would be required only 20 miles, as it may be fearlessly taken over rocks, &c., whilst with the line about to be laid they require five miles more, they being afraid to trust it along the nearest route, because there is a few rocks in the road). In addition, the conducting wires and other contingencies will cost 145*l.* per mile, making the cost, including labour, something like 400*l.* per mile, while the experimental line will cost from 800*l.* to 1000*l.* per mile.

But I must stop; I fear I am intruding too much on your valuable columns, and therefore conclude by hoping that the experimental submarine electric telegraph between England and France may prove of some prac-

tical use. If not in passing words for a short time at a high rate, it may act as a lesson not to squander away so much money and valuable time on a third experimental line.

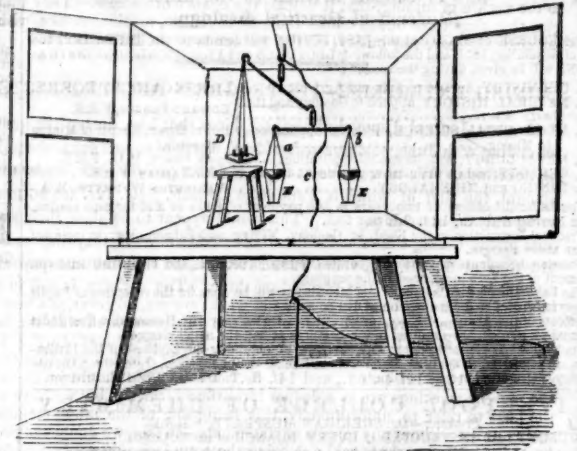
Commercial-road, Peckham.

GEORGE LITTLE, Electrical Engineer.

ATMOSPHERIC INFLUENCES.—NEW SERIES—No. XI.

BY FRANKLIN COXWORTHY, AUTHOR OF "ELECTRICAL CONDITION."

Our previous observations having placed beyond all doubt the important fact that evaporation is not referable to "heat," and it being at last admitted that the hygrometer is an imperfect instrument, we shall now proceed to the consideration of another class of conditions also referable to the relative electrical states of the earth and the air, fraught with more important considerations to the sustenance and happiness of mankind than any subject that engages the attention of the philosopher; and it having been our peculiar good fortune to have invented an instrument which most beautifully and accurately defines these conditions, a description of it cannot fail in possessing much interest.



a.—Silken threads. b.—Fine copper wire. c.—Stout copper wire, connecting the arrangement with the ground. d.—Weights representing the total evaporation from both vessels. e.—Small weight dishes, for the restoration of balance, from difference of evaporation in insulated and non-insulated vessels.

On the north side of the wall, at the bottom of the garden, is a summer-house, the roof of which consists of boards covered with painted canvas, a lining of stout brown paper being introduced to equalise the temperature, which under the roof, during the hottest days, does not exceed that of the external air in the shade by more than one or two degrees. Into the west end of this house is placed an ordinary meat safe, the sides and doors of which consist of stout gauze, so that when the doors are closed the apparatus, represented in the above sketch, whilst it is under the free influence of air, is protected from wind, the necessary precautions being taken to ensure that both the copper vessels, which contain each 32 ozs. of water, and are 7½ in. diameter, shall be similarly circumstanced. The copper wire, c, which is connected with an iron rod driven 4 ft. into the ground, is likewise conducted some distance underground outside the building in connection with the garden wall, which ensures full terrestrial influence, so that whilst the vessel b is always connected, electrically, with the earth, a is insulated from it.

STATEMENT.

Date.	1845.		1846.		1847.		1848.		1849.		1850.		1851.	
	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.
January	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
February	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
March	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
April	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
May	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
June	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
July	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
August	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
September	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
October	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
November	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
December	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
Grains...	960	3360	1963	2620	2170	2400	2075	1720	3915	2340	2130	—	—	—
Mort. p. cent	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	2.375	—	—	—

Evaporation, not being referable to "heat," is clearly to be attributed to some other cause, and that cause, until evidence be adduced to the contrary, we shall assume to be electricity. It is reasonable to suppose, then, that the water under the greatest electrical influence should evaporate most; and on reference to the figures in the above statement, it will be seen that during the year 1846 there was a great excess of evaporation from a, representing the electrical state of the air, whilst in 1849 there was a corresponding excess from b, representing the electrical state of the earth. In 1846, the potato disease prevailed; in 1849, we had the cholera; and below our figures we have added the per centage of mortality in the metropolis, extracted from the highly valuable returns afforded by the Registrar-General, between which and the totals there is, to say the least, a strange coincidence.

These constitute a portion of our facts, but others having also afforded evidence of the electrical condition of the air as having relation to epidemic diseases, we append a statement compiled by M. M. Pelletier and Quelet, leaving it to the reader to form his own opinion of the relative value of our apparatus and the electrometer as instruments of practical research. This table is taken from the *Philosophical Magazine* for April last, and to it is appended the following remark:—"All these questions deserve still higher importance, from the fact that the anomaly remarked coincided very nearly with the return of that scourge which caused our population to suffer so severely." A sentiment, we should hope, that will induce the scientific world to sink all minor considerations in the investigation of principles, the development of which, if correct, can alone throw a glimmer of light upon so momentous a subject.

MEAN OF THE DEGREES OBSERVED WITH THE ELECTROMETER.

Date.	1845.		1846.		1847.		1848.		1849.		1850.		1851.	
	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.	Insulate.	Non-Ins.
January	50	50	50	50	50	50	50	50	50	50	50	50	50	50
February	55	45	45	45	45	45	45	45	45	45	45	45	45	45
March	44	26	26	26	26	26	26	26	26	26	26	26	26	26
April	27	23	23	23	23	23	23	23	23	23	23	23	23	23
May	26	19	19	19	19	19	19	19	19	19	19	19	19	19
June	18	18	18	18	18	18	18	18	18	18	18	18	18	18
July	21	14	14	14	14	14	14	14	14	14	14	14	14	14
August	27	22	22	22	22	22	22	22	22	22	22	22	22	22
September	29	23	23	23	23	23	23	23	23	23	23	23	23	23
October	42	26	26	26	26	26	26	26	26	26	26	26	26	26
November	44	41	41	41	41	41	41	41	41	41	41	41	41	41
December	53	51	51	51	51	51	51	51	51	51	51	51	51	51
Year	36	30	31	31	31	31	31	31	31	31	31	31	31	31

GEOLOGICAL MAP OF LONDON.—A coloured map of London and its environs, from a survey by Mr. R. W. Mylne, C.E., has just been published by Mr. Wyld, Charing-cross. It comprises an area of about 150 square miles, being from East Ham to Chiswick east and west, about 10 miles, and from Hampstead in the north to Clapham in the south, about 10 miles. The different colours represent the general surface soils, omitting the thin alluvials, except the peat, in the Plumstead, Plaistow, and other low grounds. The positions are distinctly defined of the brick-earth loam, gravel and sand, the silicious sands of the Bagshot series, at Highbury and Hampstead, the general London clay formation, the striped sands, shells, pebble beds, and mottled clay of the lower tertiary formation, and the chalk. The made ground and accumulated debris occurring in the city and anciently populated parts are omitted; it varies from 8 to 18 feet in thickness, and in Westminster from 6 to 12 feet. There are figures on the principal summits denoting their heights above high-water mark, with shaded contour lines, indicating 10 ft. altitudes, and nothing appears to have been omitted to render the map of great utility in a sanitary point of view, as well as to architects, surveyors, builders, sewer contractors, and others interested in a correct knowledge of the geological features of the great metropolitan district. The map also, being the first topographical as well as geological, is rendered additionally valuable.

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending Sept. 13. Was 43,906.—Amount of money, 412*l.* 18*s.* 10*d.*

BOROUGH OF SUNDERLAND—NOTICE TO ENGINEERS AND SURVEYORS.—Any person desirous of obtaining the APPOINTMENT to the office of SURVEYOR to the CORPORATION OF SUNDERLAND, is requested to FORWARD TESTIMONIALS of QUALIFICATION and COMPETENCY, addressed (free of postage) in the "Town Clerk, Sunderland," on or before Wednesday, the 8th day of October next, on which day the Committee appointed by the Corporation will meet, at Seven o'clock in the evening, to RECEIVE and examine APPLICATIONS and TESTIMONIALS of CANDIDATES.

As the duties of such Surveyor will comprise the Municipal as well as the Local Board of Health business of the Corporation, a Candidate must be familiar with the practice of engineering, especially hydraulic engineering, in connection with works of water supply, drainage, sewerage, and surface cleansing—competent to conduct surveys, prepare plans of estates, drawings, and estimates of works of every description, and able to superintend the execution thereof, test the materials, and see to the fulfilment of the conditions of their contracts by contractors for such works.

The whole time of the Surveyor is to be devoted to the duties assigned to him, and he is to be restricted from undertaking any other employment. Salary, £250 per annum, with permission to take pupils.

Candidates are to state their age in their applications, but are not required to attend personally before the Committee, unless specially summoned. The successful candidate, if required, to give bond for the faithful discharge of his duties. The Town Clerk, on application to him (if by letter, to be post-paid), will answer all inquiries, and give any further information.

Sunderland, Sept. 11, 1851.
By order,
WILLIAM SNOWBALL, Town Clerk.

GOVERNMENT SCHOOL OF MINES, AND OF SCIENCE APPLIED TO THE ARTS.

Museum of Practical Geology.

The COURSE OF STUDY at this INSTITUTION will commence on THURSDAY, the 6th of November, 1851, and the following LECTURES and PRACTICAL DEMONSTRATIONS will be given during the session:—

1. CHEMISTRY, applied to Arts and Agriculture. LYTON PLAYFAIR, Ph.D., F.R.S.
2. NATURAL HISTORY, applied to Geology and the Arts. EDWARD FORBES, F.R.S.
3. MECHANICAL SCIENCE, with its applications. ROBT. HUNT, Keeper of Mining to the Mint. Records.
4. METALLURGY, with its special applications. JOHN PARRY, M.D., F.R.S.
5. GEOLOGY, and its practical applications. A. C. RAMSAY, F.R.S.
6. MINING and MINERALOGY. WASHINGTON W. SMYTH, M.A.

The fee for the course of two years is one payment of £30; or £20 for each session, from November to August inclusive.

Practical Instruction in the Field, in Geology, Mining, and Palaeontology, is included in the above charges.

Occasional Students may attend separate Courses of Lectures and Field Instruction on payment of the Fees mentioned in the program.

The Laboratories for Chemistry and Metallurgy will be open for the reception of Pupils on payment of £15 for the session of five months.

Officers of the Army and Navy, either in the Queen's or the Honourable East India Company's service, are admitted to the Lectures at half the usual charges.

Students who propose to enter with the view of obtaining the Diploma of the Institution, are requested to apply to Mr. Trencham Reeks, at the Museum, from whom the necessary information may be obtained.

H. T. DE LA BECHE, Director.

LIVERPOOL COLLEGE OF CHEMISTRY.

Professor—Dr. SHERIDAN MURPHY, F.R.S.E.

STUDENTS ARE INSTRUCTED IN EVERY BRANCH OF THE SCIENCE.

Fees for Analysis or Assays may be had on application, with full prospectuses.

AUSTRALIAN GOLD MINING COMPANY.

Capital £10,000, in £1 shares, with power to increase, if necessary.

The object of this Company is to get out adventurers for the purpose of exploring the gold mining districts of New South Wales, in the colony of Australia, upon mutual advantages. Concessions and privileges will be obtained from the proper authorities to secure exclusive rights to the shareholders of this company.

Detailed prospectuses will be shortly published; in the meantime applications for shares (pre-paid) may be sent to Charles Gurney, Esq., 14, Great Winchester-street, London, but not later than Monday next, when the allotment will take place.

CWMDYLE ROCK AND GREEN LAKE COPPER MINING COMPANY.—CARNARVONSHIRE, NORTH WALES.

Capital £30,000, in 10,000 shares of £3 each—conducted on the "Cost-book" principle.

Deposit £1 per share, payable upon allotment. The remaining £2 deposit and further call (if any), to carry dividends arising from the workings.

OFFICES OF THE COMPANY.—2, SCOTTS-YARD, BUSH-LANE, CANNON-STREET.

COMMITTEE OF MANAGEMENT.

Mr. EDWARD ASHTON, Milton-street, Dorset-square
Mr. SYLVESTER WALSH, Polygon, Somers Town
Mr. JAMES ARBAGN, Malda-hill
Mr. H. A. SPARDING, Hanover-square

(With power to add to their number.)

ADVISERS.

Mr. James O'Leary, for the committee; Mr. James Turney, for the shareholders.

BANKERS—Messrs. Rogers, Olding, and Co., Clement's-lane, Lombard-street.

SOLICITOR—Mr. Edward Manley, 31, Bedford-row.

PURSE AND SECRETARY—Mr. Henry Palmer.

The Cwmdyle Rock and Green Lake Mine is situated on a large estate in the parish of Beggelert, Carnarvonshire. The grant extends over about five miles in length and three in breadth, and is held under a lease of 21 years, 13 of which are unexpired, under a moderate royalty.

The purchase of the interest of the late adventurers in this valuable mine has been secured upon very favourable terms—viz., that the whole of the purchase-money shall be taken in paid-up shares in this Company, carrying interest of 6 per cent. per annum upon £2 per share—payable annually from their respective dates. The remaining £1 deposit and further call (if any), to carry dividends arising from the workings.

Interest, at the same rate, will be paid to subscribers upon all shares paid up in full by them. The bond-fide holders of scrip in the former undertaking have consented to take in exchange paid-up shares in this Company, in preference to being paid off, and will be entitled to the same rate of interest thereon.

The greater part of the shares are already taken, and the remaining few will be allotted to responsible applicants only.

The subscription will be closed on the 23d inst.

Applications for more detailed prospectuses, plans, and forms of application for shares may be made at the offices of the Company; at the offices of the solicitor, 8, A, Milton-street, Dorset-square; and at Mr. Ringrose's, Sherrard-street, Golden-square.

STIRLING'S PATENT ALLOYS.—RAILWAY CARRIAGE BEARINGS, MILL BRASSES, AND ALL DESCRIPTIONS OF CASTINGS, ARE MANUFACTURED BY ALFRED BARRETT, Bishopsgate Foundry, Skinner-street, SOLE LICENSEE FOR LONDON.

BELLS of very superior quality (Stirling's Patent) are also SUPPLIED.

NEW LOCOMOTIVE FOR BURNING ANTHRACITE.

A boiler, so arranged as to be capable of consuming anthracite coal, without being rapidly destroyed from the intense heat of that fuel, and to supersede the difficulties hitherto attendant on the management of the fire, has long been desired in South Wales, but more especially in America, where the immense coal-fields of Pennsylvania are composed principally of that fuel; and Mr. J. F. P. Dimpfel, of Philadelphia, has at length, we are glad to learn, solved the problem, with perfect success. The boiler is as usual a tubular one, the pipes of which communicate at their ends with the water in the boiler at the chimney end, by being carried through the tail plate of the fire-box into a part of the water chamber, and the fire-box ends of the tubes are bent upwards, and passed with a water-tight joint through the crown plate; the boiler thus consists of a series of chambers, all communicating over the crown plate at the two ends and down the sides of the fire-box; the heated air and products of combustion passing off readily among the pipes to the chimney, the water from the ends of the bent tubes continually boiling over the crown plate keeps it from burning, and secures a constant flow of water through the tubes. The crown plate of the fire-box is made with a rim or projection all round, the better to retain the water flowing from the bent ends of the tube, in case the water in the boiler should get low. A short distance above the top flue plate there is a cylinder, provided with a reciprocating piston, the rod of which passes through the head of the boiler, that it may be connected with any moving part of the engine; or any other first mover, to give it a reciprocating motion. The cylinder is provided with two education and two induction valves, discharging into a pipe leading down into one of the water spaces. This motion of the piston will produce a current of water down the water space, in which the pipe is located, and this will induce a current through the boiler and over the heating surface. Mr. Dimpfel's engine has been in use daily for several months, running over 6000 miles of railway, and consuming anthracite exclusively. The length of the boiler is 10 ft. 8 in., diameter, 42 in., 99 tubes, 83½ ft. heating surface, diameter of cylinder, 15½ in., 26 in. stroke, four driving wheels 6 ft. diameter, and weighs, when in working condition, 24½ tons.

FORMATION OF MINERALS IN THE MOIST WAY.—M. de Senarmont, to whom we owe the valuable and ingenious experiments upon the conducting power of crystallised substances, has been engaged in the endeavour to form some of our common minerals occurring in veins, by the liquid way, and has succeeded in getting from solutions containing carbonic acid and sulphuretted hydrogen, and the alkaline sulphates and bi-carbonates, either alone or together, microscopic but perfectly formed crystals of the following substances:—Native metals—copper, silver, mixed with alloying, arsenic; oxides—hematite, quartz, red oxide of copper; carbonates of magnesia, iron, manganese, cobalt, nickel, zinc, copper (malachite); sulphate of baryta; sulphurets of arsenic (realgar), antimony, bismuth, iron (pyrites), manganese, cobalt, nickel, zinc (blende), copper; oxy-sulphurets of antimony; arsenic-sulphurets of iron (mispickel) silver; antimonio-sulphurets of silver. What he proposed to himself was, to establish by experimental proofs, the opinion controverted, but to him very probable, which attributes the filling of concretionary veins to the thermal incrusting deposits, and to show that the formation of a great number of the minerals which are there met with, whether crystallised or amorphous, does not always require conditions or agents very different from actual causes.—Comptes Rendus.

GREAT POLGOOTH MINING COMPANY.—At the First

General Meeting of proprietors, held at the London Tavern, on Wednesday, the 17th inst.,

F. C. BROWN, Esq., in the chair,

the following RESOLUTIONS were agreed to:—

1. That the report and accounts just read be received and adopted.
- Moved by Mr. Johnson, and seconded by Mr. Withers.
2. That the profit of 11009. 9s. 10d., as shown to have accrued over the working costs for the two months and 25 days, to 30th June last, be payable as a dividend of 2s. per share, on and after the 24th inst., being at the rate of about 14 per cent. per annum.
- Moved by Mr. Orton, and seconded by Mr. Street.
3. That it is considered preferable, on account of the large number of shares constituting the Company, to pay dividends in future at intervals of not less than six months.
- Moved by Mr. G. Thomas, and seconded by Mr. John Brown.
4. That Mr. Samuel Heseltine, jun., be added to the committee.
- Moved by Mr. Samuel Heseltine, sen., and seconded by Mr. Mercer.
5. That Mr. Wm. Mariner and Mr. W. F. Street be the auditors of the Company.

CHYPREASE CONSOLS TIN AND COPPER MINE,

situated in the parish of ST. ENODER, near TRURO, CORNWALL.

In 1024 shares, of £5 5s. each.—Deposit £1 7s. 6d. per share.—Conducted solely on the COST-BOOK SYSTEM.

The attention of mining speculators and others are particularly directed to this promising undertaking, which, from the progressive and forward state of the works, holds out every prospect of its soon becoming a good dividend-paying mine; and from its known richness it is well worthy the attention of speculators in mining property.

A few shares only are offered to the public, as more than three parts are already taken up; therefore, immediate application is absolutely necessary, to be made to the Committee of Management, through Mr. Thomas Lewis, No. 17, New Meeting-street, Birmingham, purser; A. Yeates, Esq., solicitor, 77, New Hall-street, Birmingham; or to Messrs. Boxall and Co., 7, George-yard, Lombard-street, City, London.

Prospectuses, reports, and every information, may be obtained upon application to either of the above named parties; the Committee of Management have decided to allot shares to approved applicants until further notice.

The deposits may be paid into the bankers of the Company, the "National Provincial Bank of England," at Birmingham; or through their London and provincial houses.

By order of the committee,
Birmingham, August 8, 1851. THOMAS LEWIS, Purser.

DEVON COPPER ORE SMELTING COMPANY.

[PROVISIONALLY REGISTERED.]

Capital £12,000, in £12,000 shares, of £1 each.—(No further call or increase of capital).

FIRST DIRECTORS.

JAMES LAMB, Esq., 69, Gloucester-terrace, Hyde-park

GEORGE BURN OMAN, Esq., 33, Westbourne-terrace road, Hyde-park

ALEXANDER PETER, Esq., Bishopsgate-street-within

JOHN R. DAVIDSON, Esq., Elm Villa, Finchley.

BANKERS.

LONDON—The London and Westminster Bank, Lothbury

COUNTRY—Messrs. Hawkey, Nicholls, and Co., Falmouth

SOLICITOR—E. Manby, Esq., Lombard street Chambers.

PROVISIONAL SECRETARY—E. Manby, Esq.

BROKERS—Messrs. Lind and Rickard, Bank Chambers, Lothbury.

It is well known that the immense quantities of poor copper ore at the mines of Devon and Cornwall have hitherto been deemed almost valueless, owing to the expense attending the extraction of the copper, but by a method of concentrating and converting patented, as "Todd's Patent," not only the copper, but the other chemical products, particularly the arsenic, in these descriptions of ore, can now be made available at a very small expense; the copper being concentrated for sale to the smelter, and at the same time, without any additional expense, the arsenic is extracted; the profit from the latter alone being sufficient to defray the cost of concentrating the copper, and to leave a large return.

The efficacy of this process has been proved to the satisfaction of the most experienced chemists, amongst whom may be named Dr. Ure, M.D., F.R.S., and Professor of Chemistry; and William Phillips, Esq., Curator of the Museum of Practical Geology.

Arrangements have been made with the patentee upon favourable terms, and the object of this company is to carry into effect, to the largest practical extent, the process in question: and after the closest investigation, the directors feel justified in anticipating a very large return for the capital employed, as shown by the following estimate:—

The cost of 3000 tons of ore, and expense of working the same, in coke, wages, &c., &c., proved by actual results, would be £2 per ton, or in all £6,000

The produce of these, according to actual results would be:—

1000 tons of copper regulus, worth £4 per ton £4,000

100 tons of arsenic, at £10 per ton (the present market value being £11 per ton) £1,000

From which deduct cost as above 6,000

Net profit £8,000

Any person well acquainted with the value of the two products, copper and arsenic, will at once perceive that the above is rather under than over the mark.

The above calculation is given merely to show the result on 3000 tons, but the works will be capable of concentrating a much larger quantity annually.

The patentee has offered to the company the use of extensive premises at Bischoe, near Truro, until the company's works are erected, and these premises having already been used by him in proving the value of his patent, the company will be able, immediately on being formed, to commence working.

The copper regulus obtains a ready sale to almost any extent; and the consumption of arsenic is very considerable, and annually increasing—the present consumption being 3000 tons per annum. An interest to the extent of 2000 shares will be taken by the patentee, and the agreement with him, as also the reports of Dr. Ure and Mr. Phillips, may be seen, and all further particulars learned, at the office of the company.

Prospectuses and forms of applications for shares may be obtained at the temporary office of the company, Lombard-street Chambers, of the solicitor, and of the brokers.

Scrip in exchange for the bankers' receipts, will be issued the week after allotment.

TO THE DIRECTORS OF THE DEVON COPPER ORE SMELTING COMPANY.

GENTLEMEN,—I request you to allot me shares in the above Company, and I hereby agree to take the same, or any less number you may allot me, and to sign the Deed when required.

Name

Address

Occupation

Reference

Dated this day of 1851.

WEST CAMBORNE MINING COMPANY.

Divided into 5000 shares.—Deposit 20s. per share.

CONDUCTED ON THE COST-BOOK PRINCIPLE.

LONDON OFFICES.—3, GEORGE-YARD, LOMBARD-STREET.

These mines are in the same stratum of ground, and stand parallel to, and east and west of, Wheal Grenville, Tolcarne, Condour, Wheal Harriet, West Frances, South Frances, West Basset, North Basset, and numerous other valuable and productive mines. They are held under lease for twenty-one years, at 1-18th dues, being situate at Carnynvan (the property of Hendre Moleworth St. Aubyn, Esq.), in the western part of Camborne, in the county of Cornwall—the most metalliferous district in the world. The set is traversed by many east and west lodes, which present on the backs the usual indications of the district—viz.: gossan, quartz, blende, iron pyrites, fine specimens of grey and oxide of copper ore, together with other metallic concomitants. Several slides and cross-courses intersect the lodes, of known importance; a fine elvan-crook exists about the junction of the killas and granite, which takes place in the Company's grant.

From the ablest and most careful judgments of the oldest and best mining agents in Cornwall, £6000 is deemed amply sufficient to purchase and erect the necessary machinery, and bring the mine into profitable and good working order; therefore, it is proposed to sell 3000 shares, at £2 each, and the remaining 2000 shares to be retained by the proprietors for the transfer of the property, leases, and remuneration for work done.

The following few mines, situate in the same district, and within a short distance of the Company's grant, have paid, during the past half-year, £38,042 in dividends—the whole expenditure to realise which was £80,022, and the present market value of the same is £645,840. Thus it will be seen that the average return is 295 per cent. per annum upon the original cost, and upwards of £11 15s. per cent. per annum on the current market value of shares. The aggregate amount of profits from these mines, divided, exceed £275,000—thus returning to the fortunate shareholders more than eight times their outlay, and the prospects of continued success at present being equal to any period of their existence.

The expenditure, price, and profits divided, as far as can be gathered, are stated above. Many other mines in the neighbourhood, not valued, are selling at considerable premiums, and fast approaching dividends; but as the market price partakes more of a speculative than intrinsic value, and subject to constant changes, they are omitted.

Applications for shares to be made to the secretary, Mr. H. B. Bousfield, at the Offices of the Company; and to Messrs. Tredinnick and Co., 3, George yard, Lombard-street, London, of whom prospectuses and all further particulars can be obtained.

NORTH TRELAUNY MINE (SILVER-LEAD AND COPPER), PARISH OF LINKINHORNE, COUNTY CORNWALL.

In 16,000 parts, or shares, of 10s. each, in scrip to bearer.

This Association is conducted under a Committee of Management, on the principle of the "Cost-book," which exempts proprietors (the undertaking being within the jurisdiction of the Stannary Court) from any liability beyond the amount of their shares, and enables them to withdraw at any time, by giving notice to the purser to that effect.

In addition, scrip (payable to bearer) will be issued for the parts or shares, which will make it optional with the holder to register or not.

This mining set, from its geological position alone, is one of great value, both for silver-lead and for copper, which is confirmed by the discoveries already made, and give assurance of the best results.

North Trelawny is at Billa Mill, in the parish of Linkinhorne, and nearer of Rillaton; it is bounded generally on the north and east by the Callington district; on the west by the well-known Caradon; and on the south by the celebrated Trelawny district.

The Trelawny lode of silver-lead runs through this set north and south, and the Caradon copper lode likewise traverses the property east and west. It is superlative to allude to the well-known extraordinary richness of either the Caradon or the Trelawny mines. The stratum generally is dark bluish "plum" killas, which is so congenial for the production of rich mineral, and can be worked with much facility and economy.

Prospectuses, with form of application for shares, and every information, may be obtained at the offices, No. 30, Bucklersbury.—By order, JAMES A. MAY, Purser.

FINAL NOTICE.

ST. AGNES BEACON TIN AND COPPER MINE,

CORNWALL.—In 2500 shares, of £1 1s. each.

(ON THE COST-BOOK SYSTEM—No further Liability).

In conformity to the Law of the Stannaries.—Committee to be selected from the shareholders.

BANKERS—London and Westminster Bank.

The share list being nearly complete, NO FURTHER APPLICATIONS will be RECEIVED by Mr. W. Pike, Esq., 26, Bedford-row; or Mr. John Morgan, sworn broker, 2, Copthall-court, London; after SATURDAY (THIS DAY), the provisional committee will proceed in the course of a week to allot the shares, of which due notice will be given.

Dated September 20, 1851.

TABLES FOR THE USE OF PERSONS EMPLOYED

IN MINES.

1. For ascertaining the Value of Excavations on Tutwork at per fathom, from 1 inch to 12 fathoms, and from 1d. to 222 per fathom—also suitable for calculating stopes.

2. For ascertaining the quantity of water in a given quantity of ore, at from 1 ounce to 94 pounds per barrow of 3 cwt.

3. For ascertaining the standard to be given for any produce from 1½ to 60½, in proportion to a given standard and produce, on the same plan with Phillips's Copper Ore Standard and Sheet.

4. For ascertaining the value of a ton of copper ore at any standard, from 3d. to £190 19s. 9d., and for any produce, from 1½ to 60½.

5. For ascertaining the tribute's part of any sum of money, from 6d. to £100 and above, at any tribute, from 1d. to 15s. in the 12 sterling.

These tables have been used by the author for more than five years; and at the last Exhibition of the Royal Cornwall Polytechnic Society, they obtained a prize of the first bronze medal. Richard Taylor, Esq., in introducing them to notice on that occasion, is reported to have stated that "he might say, as one of the judges (and there were several mine agents among them), that the tables were such as could hardly fail of being very useful, and they were proposed to be published at a price which was very moderate indeed, so that he trusted they would come into general use." See the reports of the proceedings of the Royal Cornwall Polytechnic Society, in the West Briton, for Sept. 20 and 27, 1850.

Price to subscribers 6s. per copy, and 7s. 6d. to non-subscribers. The price is fixed thus low in order to bring the work within the reach of the working miner.

Orders to be addressed to the office of the Mining Journal, 26, Fleet-street, London, or to Mr. William Whitburn, Liskeard.

STEAM TO INDIA, CHINA, &c.—Particulars of the regular

MONTHLY MAIL STEAM CONVEYANCE.

AND OF THE ADDITIONAL LINE OF COMMUNICATION, NOW ESTABLISHED BY THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY

with the EAST, &c. &c. The Company book PASSENGERS, and receive GOODS and PARCELS, as heretofore, for CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG KONG, by their steamers, starting from SOUTHAMPTON on the 20th of every month, and from SUEZ on or about the 10th of the month.

One of the Company's first-class steamers will also be dispatched from Southampton for Alexandria, as an extra ship, on the 3d of November next, and of alternate months thereafter, in combination with extra steamers, to leave Calcutta on or about the 20th October and 20th December. Passengers may be booked, and goods and parcels forwarded by these extra steamers to or from SOUTHAMPTON, ALEXANDRIA, ADEN, CEYLON, MADRAS, and CALCUTTA.

BOMBAY.—The Company will likewise dispatch from Bombay, about the 1st November next, and of every alternate month thereafter, a first-class steam-ship for ADEN, to meet there the extra ship between Calcutta and Suez; and at Alexandria one of the Company's steam-ships will receive the passengers, parcels, and goods, and convey them to Southampton, calling at Malta and Gibraltar.

But PASSENGERS, PARCELS, and GOODS for BOMBAY and WESTERN INDIA will be CONVEYED THROUGHOUT from SOUTHAMPTON in the Mail steamers, leaving Southampton on the 20th of October, and of alternate months thereafter, and the corresponding vessels from Suez to Aden, which latter port a steam-ship of the Company will be in waiting to embark and convey them to Bombay.

Passengers for Bombay can also proceed by this Company's steamers of the 9th of the month to Malta, thence to Alexandria, by Her Majesty's steamers, and from Suez by the Honourable East India Company's steamers.

MEDITERRANEAN.—MALTA: On the 20th and 29th of every month.—CONSTANTINOPLE: On the 29th of the month.—ALEXANDRIA: On the 20th of the month.

SPAIN AND PORTUGAL.—Vigo, Oporto, Lisbon, Cadiz, and Gibraltar, on the 7th, 11th, and 27th of the month.

S.E.—Steam-ships of the Company now ply direct between Calcutta, Penang, Singapore, and Hong Kong, and between Hong Kong and Shanghai.

For further information and tariffs of the Company's recently revised and reduced rates of passage-money and freight, and for plans of the vessels, and to secure passages, &c., apply at the company's offices, No. 122, Leadenhall-street, London; and Oriental-place, Southampton.

TO MINE PROPRIETORS, WATER-WORK AND LAND-DRAINAGE COMPANIES, CONTRACTORS, MANUFACTURERS, AND OTHERS.

GREAT BRITAIN STEAM-SHIP

THE PROPRIETORS of this SHIP desire TENDERS for the WHOLE (or for any definite section, that would not prejudice the entirety of the remainder) of her STEAM MACHINERY, as originally constructed, consisting of FOUR 88-hp CYLINDERS, of 6-feet stroke, with pistons and rods, air-pumps and condensers, connecting-rods and guides, and all the detail of nozzle and valve gear, necessary to connect each pair of cylinders complete in themselves, from the pistons to the crank-pins.

Apply to Mr. Croome, civil engineer, or Capt. Mathews, on board the vessel, Sanden Graving Dock; or Gibbs, Bright, & Co., Liverpool.

TO AGRICULTURISTS.—IMPROVEMENTS IN THE

PREPARATION OF MANURES.—AGRICULTURISTS are INVITED to take SAMPLES of MANURES (Stones' Patent Huminate), free of expense, at the office of the GENERAL FEAT WORKING AND MANURE COMPANY, 6, JOHN-STREET, ADELPHI, LONDON.—The Patent Huminate is free from filthy matter; it consists entirely of concentrated decomposed vegetable organic substances, soluble humic acid, fixed salts of ammonia, with other ingredients, according with soil, plant, and climate. It will promote vegetation in all its requirements, and invariably improve the soil, and can challenge the best guano, at one-third the cost.

To every scientific person, or practical farmer (however deficient in knowledge of chemical science), who inquires into the composition of these manures, and of bringing guanos to England, even though they cost but one quarter the price of the others, will appear most undeniably.

Samples may be had on application at the Mining Journal office, 26, Fleet-street.

STIRLING'S PATENTS FOR IMPROVEMENTS IN

IRON.—1. TOUGHENED CAST-IRON, which is double the strength of ordinary cast-iron, and only 10s. to 12s. per ton extra.

2. ANTI-LAMINATING IRON, for RAILS and TIRES, &c., at an extra price of from 7s. 6d. to 10s. per ton. Also IMPROVEMENTS in the MAKING of WROUGHT IRON—saving one process to the manufacturer.

The following Iron Manufacturers are duly LICENSED to MAKE the IRON:—

Messrs. BAIRD'S Garthshore, Glasgow

The CLYDE IRON COMPANY ditto ditto

THE MINING SHARE LIST.

Shares.	Mines.	Paid.	Dividends per Share Declared.	Last Paid.	Last Price.	Present Price.
5120	Alfred Consols (copper), Phillack	3	£ 1 13 to 1st Aug.	£0 6 0 Aug.	14	14 14
1248	All-y-Crib (silver-lead), Talybont, Wales	—	0 2 6 to August	0 2 6	7 1/2	7
1024	Balldodd (tin), St. Just	11 1/2	0 15 to Aug.	0 4 to Aug.	16	16
4000	Bedford United (copper), Tavistock Devon	2 1/2	2 16 to Aug.	0 4 to Aug.	7 1/2	7 1/2
64	Boscawen Downs (tin), St. Just	—	750 0 to May, 1849	5 0 to May	200	200
100	Botallack (tin and copper), St. Just	182 1/2	440 0 to 5th April	0 5 to June	17 1/2	17 1/2
1000	Brynmill, Llanidloes, Montgomeryshire	2 1/2	0 5 to end July	0 5 to June	5 1/2	5 1/2
1000	Callington (lead and copper), Callington, Devon	39	0 0 to Sept., 1847	—	95	95
1000	Carn Brea (copper and tin), Illogan	18	302 0 to June, 1851	2 0 to June	30	30
128	Conford (copper), Gwennap, Cornwall	70	—	—	112 1/2	112 1/2
256	Condurow (copper and tin), Camborne, Cornwall	20	11 0	—	20	20
1024	Devon Great Consols (copper), Tavistock	1	239 10 to Aug.	7 0 to Aug.	295 290	295 290
180	Dolcoath (copper and tin), Camborne	252	855 14 to 1847	—	25	25
128	East Pool (tin and copper), Pool, Illogan, Cornwall	24 1/2	233 0 to 1843	—	130	140
94	East Wheal Crofty (copper), Illogan, Cornwall	125	242 10	—	450	450
128	East Wheal Rose (silver-lead), Newlyn	40	2427 10 to 5th Sept.	12 10 to Sept.	30	30
404	Fowey Consols (copper), Tywardreath	40	—	—	5 1/2	5 1/2
2750	General Mining Company (or Ireland) (copper)	1 1/2	35 per cent. to June	10 per cent. 1/2 year	200	200
100	Goginan (lead), Cardiganshire, Wales	5	440 0	—	200	200
96	Great Consols (copper), Gwennap, Cornwall	1000	353 6 8 to January	5 0 to Aug.	200	200
119	Great Work (tin), Gernoe	100	115 0 to Aug.	5 0 to Aug.	2 0	2 0
1024	Herodasfoot (lead), near Liskeard, Cornwall	8	0 7 6 to Aug.	0 2 6 to Aug.	5 1/2	5 1/2
1000	Holmbush (lead and copper), Callington	24	25 0 to Feb., 1844	Feb., 1844	11 1/2	11 1/2
786	Kirkcudbrightshire (lead), Kirkcudbright	9 1/2	0 5 to Sept.	0 5 to Sept.	15	17 1/2
1000	Lewis (tin and copper), St. Erth	17	0 5 to 1st Aug.	0 10 to Aug.	150	150
160	Levant (copper and tin), St. Just	2 1/2	1032 0 to 5th Sept.	2 0 to Aug. 1	700	700
1000	Lisburne (lead), Cardiganshire, Wales	2 1/2	540 0 to 1st Aug.	0 4 6 to July 1	10	10
1000	Low's Patent Copper Smelting Company	7	10 6 to Feb., 1847	7 p. ct. p. annum	4 1/2	4 1/2
90000	Minning Company of Ireland (copper, lead, and coal)	22 1/2	217 10 to 1st Sept.	7 10 to Sept.	212 1/2	210 217
140	North Roskear (copper), Camborne	10	226 0 to ditto	6 0 to Sept.	180	180
6000	North Wheal Basset (copper and tin)	4	1 1 to 5th April	—	10	10
128	Par Consols (copper), St. Blazey	55 1/2	374 0	—	650	650
1160	Perran St. George (copper and tin)	21 1/2	1 15 to June	0 10 to 4th June	40	40
300	Phoenix (copper and tin), Linkinghorne	30	10 0 to March 5	0 5 to March	25	27 1/2
850	Providence Mines (tin), Uny Lelant	20 1/2	18 4 6 to Aug.	2 10 to July	122 1/2	125 122 1/2
256	South Caradon (copper), St. Cleer	16	37 0 to 5th Aug.	3 0 to Aug.	140 145	140 145
256	South Trelawny (copper), Illogan	80	101 15 to Sept.	6 0 to Sept.	220	200
1024	Spearhead Consols (tin), St. Just, Cornwall	14	3 7 6 to June	0 12 6 to June	9	9
94	St. Ives Consols (tin), St. Ives	80	559 0 to Aug.	4 0 to Aug.	80	80
1000	Stray Park and Camborne Vein (copper), Cornwall	15	11 10	—	12	12 1/2
9000	Tamar Consols (silver-lead), Beeralston	4	11 10 to July, 1849	—	4 1/2	4 1/2
6000	Tincroft (copper and tin), near Pool	7	5 17 6 to Sept.	1 0 to Sept.	15 1/2	15 1/2
256	Trehan (silver-lead), Menheniot	1 1/2	27 15 to Sept.	0 5 Oct. 1847	24	24 1/2
8000	Trelegh Consols (copper), Redruth	6	1 3 to Oct., 1847	—	200	200
96	Trevelyan (copper), Gwennap, Cornwall	2 1/2	1690 15 to 1848	—	13	13
120	Trevelyan (copper), Gwennap, Cornwall	130	239 15 to August	9 10 to Aug.	300	205 202 1/2
1024	Travelling (copper and tin), Perranuthnoe	6 1/2	2 2 6	0 5 to March	5 1/2	4 1/2
256	West Caradon (copper), Liskeard, Cornwall	20	162 15 to Sept.	2 10 to Sept.	102 1/2	100 95 97 1/2
512	West Providence (tin), St. Erth	10	—	—	97 1/2	95 97 1/2
356	Wheal Basset (copper), Illogan	10 1/2	245 0 to 3d Aug.	10 0 to 3d Aug.	390	400 375 372 1/2
356	Wheal Brewer (copper), Gwennap, Cornwall	2	5 0	—	10	550
356	Wheal Buller (copper), Redruth	5	96 10 to 1st Aug.	12 10 to August	550	550
126	Wheal Friendship (copper) Devon	120	2331 0 to Aug.	6 0 to Aug.	125	130
5000	Wheal Golden Consols (silver-lead), Perranuthnoe	3	0 5 to July	0 5 to July	9 1/2	10
430	Wheal Lode (tin), Helston	3	8 0 to 8th Sept.	2 0 to Sept.	32 1/2	32 1/2
112	Wheal Margaret (tin), Uny Lelant	79	187 0 to Aug.	5 0 to Aug.	157	157
812	Wheal Mary Ann (lead), Menheniot	6 1/2	21 5 to 21st Aug.	3 0 to Aug.	58 59	58
40	Wheal Owles, St. Just, Cornwall	200	—	—	280	280
340	Wheal Reeth (tin), Uny Lelant	20 1/2	27 10 to August	2 10 to Aug.	90 85	85 82
198	Wheal Seeth (tin and copper), Camborne, Cornwall	107	194 10 to 5th Aug.	4 0 to Aug.	200	200 190 1/2
620	Wheal Trelawny (silver-lead), Liskeard, Cornwall	3 1/2	26 10	0 10 to May	45 46	45
1024	Wheal Tremayne (tin and cop.), Gwennap, Cornwall	9 1/2	6 0 to Aug.	0 10 to Aug.	26	26
5000	Wicklow (copper), Wicklow	5	513 per cent.	18 p. ct. end Aug.	25 1/2	25 1/2

FOREIGN MINES.

5000	Alcon Mining Company (copper), Norway	14 1/2	3 0	0 to Mar., 1848	—	2 1/2	
10000	Brasilia Imperial (gold), Brazil	24 1/2	3 17 6	to Dec., 1844	—	3 1/2	
10000	Cobre Copper Company (copper), Cuba	40	45 12	0 to June, 1851	31. to June, 1851	33 1/2	33
10000	Copiapó Mining Company (copper), Chile	14	3 3	0 to Oct., 1850	8s. to Oct., 1850	5 1/2	6
30000	General Mining Association (iron & coal), Nova Scotia	20	6 10	0 to June, 1851	10s. June, 1851	12	
2700	Marmato (gold), Colombia	2 1/2	2 0	0 to June, 1851	17. to June, 1851	7	
5051	Mexican Company (silver), Mexico	59 1/2	0 8	6 end of 1846	4s. in 1846	—	
7000	Royal Santiago (copper), Cuba	10	33 4	0 to July, 1846	—	2 1/2	2 1/2
10000	St. John del Rey (gold), Brazil	15	12 17 6	to Dec., 1850	17. 10s. to June 7	18 1/2	19
4174	United Mexican (silver), Mexico	28 1/2	1 12	6 to Feb., 1850	7s. 6d. to Feb., 1850	—	2 1/2

Shares.	Mines.	Paid.	Last Price.	Present Price.
1024	Appledore (silver-lead and cop.) St. Ives	3	2	3
940	Balmuccia (lead), Uny Lelant	—	—	3
508	Bell and Lanthorn (copper), Gwennap	6	3	3
1500	Bishopstone (silver-lead), Glamorganshire	2 1/2	10	10
32	Black Burn, Alston, Cumberland	20	100	100
5000	Black Craig (lead), Kirkcudbrightshire	5	3	3
8000	Blancavon (iron), South Wales	50	12	12
1024	Bodmin Consols (lead), Wadebridge	6	3 1/2	3 1/2
5000	Bodmin Moor Consols (tin and copper)	8	6	6
1024	Bodmin Wheal Mary (copper), Bodmin	2 1/2	4	4
6000	Bolnisi (lead), Cardiganshire	2 1/2	4	4
130	Bolnisi and Nantpan (tin), St. Just	20	18	18
1024	Boringdon Park (silver-lead), Plympton	2	3	5
240	Boscon (tin), St. Just	15	9	9
2400	Boscon (tin), St. Just	1	2	2
1024	Bottle Hill (copper) Plympton	1	1	1
10000	British Iron, Nova, Regia, (iron)	13	6	6
—	Ditto ditto, scrip	13	6	6
3000	Bronflood (lead)	1 1/2	1 1/2	1 1/2
2400	Bryn-Arian (lead), Cardiganshire	24	12 1/2	12 1/2
812	Butterdon (lead), Menheniot	3 1/2	8 1/2	8 1/2
9000	Bwch Consols (silver-lead), Cardiganshire	4	1 1/2	1 1/2
1000	Cae-Gwyn (silver-lead), Cardiganshire	4	4 1/2	4 1/2
4000	Calstock United (copper)	5	4 1/2	5
3000	Cally (copper and lead), Kirkcudbrightshire	1	1 1/2	1 1/2
1000	Camborne Consols (copper), Camborne	7	4 1/2	4 1/2
30000	Cameron's Steam Coal (coal), Swansea	10	2 1/2	2 1/2
1168	Caradon Great Cons. (cop.), Linkinghorne	7	2 1/2	2 1/2
1326	Caradon Vale (copper), Linkinghorne	3 1/2	2 1/2	2 1/2
6000	Caradon Wood (lead), Linkinghorne	—	2 1/2	2 1/2
2000	Carbona (tin and copper), Crown	5	4	4
510	Carn Galyer (tin), Morvah and Zennor	2 1/2	3 1/2	3 1/2
5120	Carn Valley, St. Dennis	1	2	2
3000	Cartwheel Consols (cop. & lead), Wadebridge	4 1/2	4 1/2	4 1/2
1086	Carvannal (copper), Gwennap	3 1/2	9	6 1/2
2000	Cassidiana Anne (lead & cop.), Stoke Clims.	5	5	1 1/2
2648	Cassidiana (tin), St. Columb	13	14	14
300	Cefn Brunn (lead), Cardiganshire	13	14	14
6000	Cefn Gwyn (silver-lead), Cardiganshire	1	1 1/2	1 1/2
1024	Cefn Gwyn (tin and copper), St. Enoher	3 1/2	5 1/2	5 1/2
1024	Cefn Gwyn (tin and copper), St. Enoher	1 1/2	2 1/2	2 1/2
1000	Cockley Beck (copper)	4	1 1/2	2
3000	Coed Mawr Pool (lead), Llawnant	10	10	10
3810	Cook's Kitchen (copper and tin), Illogan	15 1/2	4	4
1000	Copper Bottom (copper), Crown	7	4 1/2	4 1/2
900	Court Grange (silver-lead), Cardiganshire	10	12	12
811	Craddock Moor (copper), St. Cleer	30	2	2
1600	Craig-y-Myny (lead), Llanidloes, Mont.	8 1/2	10 1/2	10 1/2
256	Cran and Belawa (copper), Camborne	20	25	25
1000	Cwm Daren (copper), Merioneth	1	3 1/2	3 1/2
1000	Cwm Erth (lead), Cardiganshire	6	3 1/2	3 1/2
2000	Cwm Sebon	—	4	4
128	Cwmstwith (lead), Cardiganshire	60	100	100
9000	Cyffnedd Fawr (lead), Lanegryn	1 1/2	1 1/2	1 1/2
3000	Darhew (copper and lead), Brecon	1 1/2	10	10
1000	Daren (silver-lead), Cardiganshire	10	6	6
7100	Darhew (copper), Brecon	10	6	6
1000	Devon Consols North (cop.), Lamerton	2 1/2	3 1/2	3 1/2
4023	Devon and Courtney Consols (copper)	2 1/2	1	1
768	Devon Great Tincroft, North Bovey	3	6	4
5120	Dharod (copper) Ireland	2	8	8
672	Ding-Dong (tin), Gwyl	5	7	7
4000	Dolfrwynog (copper), Merioneth	4	1 1/2	1 1/2
3560	Drake Walla (tin and copper), Calstock	6 1/2	5 1/2	5 1/2
128	Drift Moor (tin), Sancerre	1	2	2
1336	Duke Cornwall (copper), St. Winnow	1	2	2
8000	Dyffryn (lead), Cardiganshire	10 1/2	9 1/2	9 1/2
1024	East Haleswidden (tin), Sancerre	2 1/2	9 1/2	9 1/2
256	East Basset (copper) Redruth	10	16	16
2500	East Birch Tor (tin), near Ashburton	3	8	8
2048	East Boringdon Park, Plympton	3 1/2	2 1/2	2 1/2
1024	East Buller (copper), near Redruth	3 1/2	4 1/2	4 1/2
128	East Carn Brea (copper), Redruth	4	4 1/2	4 1/2
1948	East Gwennap (copper), Tavistock	17 1/2	12	12
300	East Haleswidden (copper), Tavistock	15	19	20
256	East Godolphin (copper), Crown	2 1/2	2	2
4000	East Gwennap Lake Junction (copper)	2 1/2	2	2
512	East Sennen and Wheal Maude, Redruth	5 1/2	3	3
9000	East Tamar Consols (all-lead), Beeralston	1 1/2	2	2
356	East Tolgus (copper), Redruth	5	7	9
1000	East Treacoll	1	1	3 1/2
256	East Wheal Frances (copper), Illogan	6 1/2	6	6
2048	East Wheal George (cop.), Walkhampton	1 1/2	3 1/2	4 1/2
2048	East Wheal Josiah (copper), Tavistock	3 1/2	16 1/2	16 1/2
512	East Wheal Lode (copper)	13	16 1/2	16 1/2
1024	East Wheal Margaret (tin and copper)	1 1/2	4 1/2	4 1/2
3000	East Wheal Rillington, Lanreath	5 1/2	4 1/2	4 1/2
1000	East Wheal Reeth (tin)	1 1/2	1 1/2	1 1/2
4000	East Wheal Russell (copper), Tavistock	4	4 1/2	4 1/2
1280	Eggar Lee Llanfihangel-y-Crothyn	4 1/2	4 1/2	4 1/2
1024	Emmor Eliza (copper), South Molton	4 1/2	8	8
2048	Forest Consols (silver-lead), Devon	14	1 1/2	1 1/2
1024	Freidley Mines (lead)	14	3 1/2	3 1/2
32000	Gall-y-Mann (silver-lead), Merioneth	2 1/2	2 1/2	2 1/2
3560	Garras (silver-lead), near Truro	5 1/2	2 1/2	2 1/2
3200	Garro (lead), Flint	5 1/2	12	12
1000	Gell-y-vin (silver-lead), Cardiganshire	1	5	5

Shares.	Mines.	Paid.	Last Price.	Present Price.
1024	Trannack and Bosene, St. Erth	1 1/2	3 1/2	3 1/2
1024	Trannack United Mines (tin and copper)	1 1/2	3 1/2	3 1/2
1024	Trebarrah, Perranuthnoe	1 1/2	4 1/2	4 1/2
2048	Trebell Consols (tin and copper), Lanivet	1 1/2	1 1/2	1 1/2
600	Tregardock (lead), St. Teall	1 1/2	5	5
224	Tregorden (silver-lead) Wadebridge	15 1/2	10	10
1000	Treloweth (copper), St. Erth	5	5	5
600	Trelvon Consols (tin), St. Ives	4 1/2	5 1/2	5 1/2
940	Treman (copper), Liskeard	4 1/2	5 1/2	5 1/2
2000	Treman (copper), Helston	6	5	5
6000	Treman (copper), Helston	21 1/2	21 1/2	21 1/2
512	Trethery (copper), St. Cleer	11 1/2	3 1/2	4 1/2
512	Treville (lead), Lewannick	4 1/2	5 1/2	5 1/2
604	Trowan Consols (tin), Towendack	7	9	9
100	Trumpet Consols (tin), near Helston	95	100	100
4000	Tyn-y-Worglod (slate), near Carnarvon	4	4	4
500	Tywardreath (cop.), Illogan & St. Agnes	60	22	